

SAMPLE REPORT, FICTIONAL STUDENT. NOT A REAL CHILD.

Aarav (sample student)

Class 10 · CBSE · Bengaluru, Karnataka

MAIN PATTERN

The Builder

Vishwakarma

ALSO STRONG

The Strategist

Chanakya

HOW CLEAR THE PATTERN IS

Strong

One pattern stands well ahead

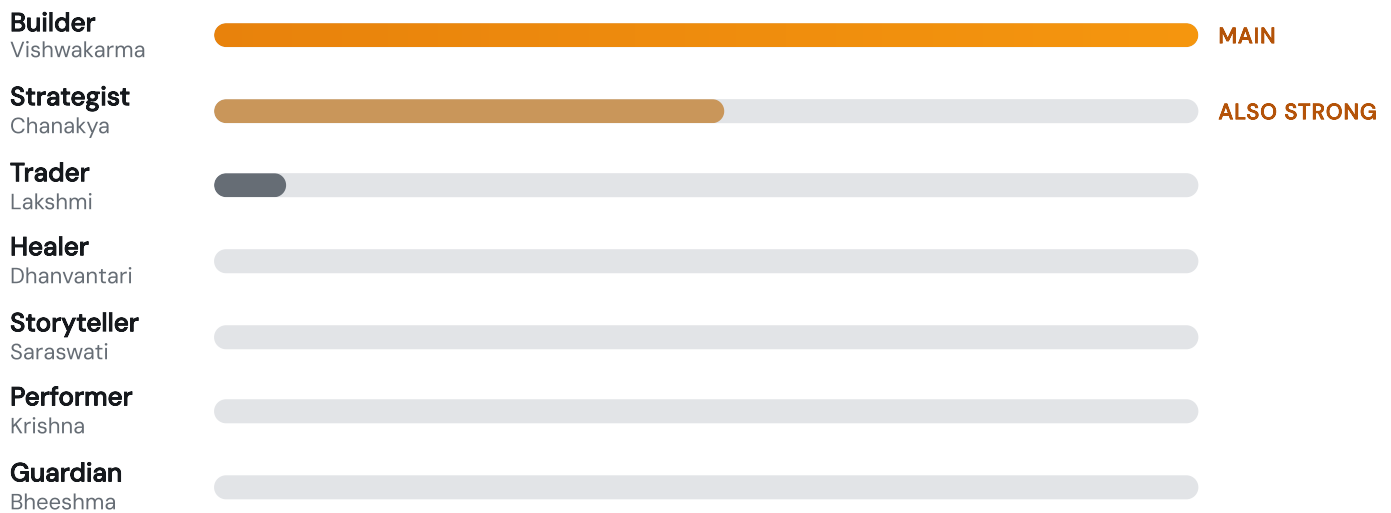
A NOTE BEFORE YOU BEGIN

This report is built on what you told us about Aarav: your answers to 30 everyday questions, 20 short personality statements and the details you added in your own words, together with Aarav's own answers. The personality and interest sections use two published questionnaires (the IPIP Big Five and the O*NET® Interest Profiler). It is not a horoscope, and it is not a diagnosis.

We sort your answers into seven patterns of how children think and act. The names come from figures in Indian tradition, and the idea behind them is the Bhagavad Gita's *swadharma*: each person does their best work when it suits their own nature. The seven patterns themselves are our modern framework, not an ancient checklist.

Read the Parenting Playbook twice: it is the most useful part for you. Treat the careers as directions to explore, not a single answer. Talk it through with him and with his teachers, and look at it again in a year, because children grow.

Seven patterns, one clear lead



Longer bar = more of your answers pointed that way. It shows direction, not a test score.

SECTION 1

Summary

If you read one page, read this one.

Aarav is a classic Builder with strong Strategist underpinnings. You described how he opens old remotes and table fans with your screwdriver set and how he taught himself basic Arduino and Python from YouTube. He does not learn by reading long chapters; he learns by making things work. When a month-long school project was assigned, his water-level alarm won a prize at the science fair. You also shared your biggest worry: the family expects IIT through JEE, but his maths score is in the 70s and you fear coaching pressure will kill his love of making things. This report provides a clear roadmap tailored to his actual nature. Aarav does not need to fit into a high-pressure, theoretical entrance exam factory to build a stellar career. His mind thrives when theoretical concepts are tied to physical building. By focusing on hands-on engineering streams, applied robotics, and project-based learning, he can excel in high-impact technological careers without sacrificing his genuine passion for hardware and creation.

MAIN PATTERN · THE BUILDER

A practical creator who instinctively deconstructs physical hardware to build functional, automated solutions.

ALSO STRONG · THE STRATEGIST

A quiet analytical thinker who tests hypotheses through rapid building and physical iteration rather than theoretical debate.

Three directions to explore

1. **Robotics & Mechatronics Engineering.** It directly channels his self-taught Arduino skills, interest in motors, and desire to build autonomous machines.
2. **Embedded Systems & IoT Engineering.** It connects his self-taught Python and microcontroller interest with smart hardware and sensor integration.
3. **Industrial Hardware & Product Design.** It builds on his ability to imagine machines and transform physical materials into useful everyday tools.

Three things to avoid

- Enrolling him in high-pressure, purely theoretical JEE coaching centers that forbid hands-on project work.
- Pushing him toward public speaking, debate societies, or essay-heavy humanities paths that cause stress.
- Evaluating his intelligence purely through written exams rather than his ability to design and build working hardware.

THE ONE THING TO REMEMBER

Aarav's math score in the 70s is not a barrier to an engineering career; it is a sign that he learns math through practical application rather than abstract drills. Forcing him into intense theoretical JEE coaching risks destroying his self-confidence and his passion for tinkering. Focus on applied engineering pathways and practical projects where his building skills can shine.

SECTION 2

Aarav's main pattern: The Builder

Builders cannot tolerate a gap between an idea and its existence in the world. They see a broken thing and want to fix it, a problem and want to construct a solution. The builder's mind is fundamentally a making mind, the dharma of engineers, architects, designers, inventors, and anyone who would rather build something than write about it.

How it shows up in Aarav

Aarav's Builder dharma is evident in his everyday choices. You noted that in his free time at home, he opens old remotes and table fans with a screwdriver set, and built a small car with a motor after watching a YouTube video. He does not just consume technology; he deconstructs it to understand its internal logic. His Builder nature is also practical and helpful. When a friend was upset at school, he quietly fixed his friend's broken headphones the next day. Similarly, during the summer holidays, he fixed your neighbour's Wi-Fi router. He prefers action over words, demonstrated when he ran the robotics club stall at school despite disliking public speeches.

- Teaches himself practical skills like Arduino and Python independently from online videos.
- Shows affection and friendship through quiet repair work, like fixing a friend's broken headphones.
- Approaches purchases logically, requesting a soldering iron complete with price comparisons from three shops.

- Responds to lower exam marks by quietly creating a new study timetable and sticking it on the wall.

Strengths

- **Self-Directed Hardware Prototyping.** He independently learns skills like Arduino and Python to convert ideas into working physical models like his award-winning water-level alarm.
- **Practical Problem Diagnosis.** He logically isolates hardware failures in gadgets like Wi-Fi routers and electric fans, making him an exceptional troubleshooter.
- **Quiet Resilience and Self-Correction.** When faced with disappointment like lower exam marks, he does not panic; he quietly creates a new structured plan.
- **Resourceful Purchasing Logic.** He researches tools like soldering irons carefully across multiple sources before asking for them, demonstrating cost awareness.

Things to watch

Not flaws to fix. Tendencies to manage.

- Avoids reading-heavy subjects like Hindi and history, skipping them until the last day, which unnecessarily lowers his overall scores.
- Tends to withdraw in social settings with unfamiliar people, relying on actions rather than verbal communication to build relationships.
- May procrastinate on long-term written documentation or project planning until the physical building phase begins.

Think of

- Verghese Kurien: Built Amul. Started the White Revolution. Made a nation's milk supply.

The common mistake parents make

Indian parents often push Builders into corporate management too early, making them the manager of a team rather than the maker of a thing. A Builder removed from the act of building loses their fire. They will tolerate management only if they can still build.

GIVES ENERGY

- Open weekends and tools to work on a project of their own choosing
- Feedback that focuses on what was made, not how it was presented
- Hard, slow, technical problems with something real at the end

DRAINS ENERGY

- Long meetings without any decision
- Performative work where appearance matters more than output
- Roles that ask them to evaluate or critique rather than create

The world of work in 2035

What changes by the time your child starts working.

By 2035, generative AI will write routine software code, produce standard reports, and calculate theoretical proofs in seconds. However, AI cannot wire an Arduino board, calibrate a sensor in a dusty factory, test a physical motor under stress, or debug a robotic actuator in the physical world. The 2035 economy will place a premium on physical AI, mechatronics, embedded systems, and hardware–software integration. Aarav sits precisely at this high–value intersection. His natural drive to deconstruct machines, learn embedded systems independently, and create working prototypes makes him resilient against AI automation. While language–based and administrative jobs face heavy automation, engineers who can bridge digital logic with physical hardware will lead the design of autonomous systems, smart devices, and renewable hardware across India and globally.

Where the Builder pattern fits

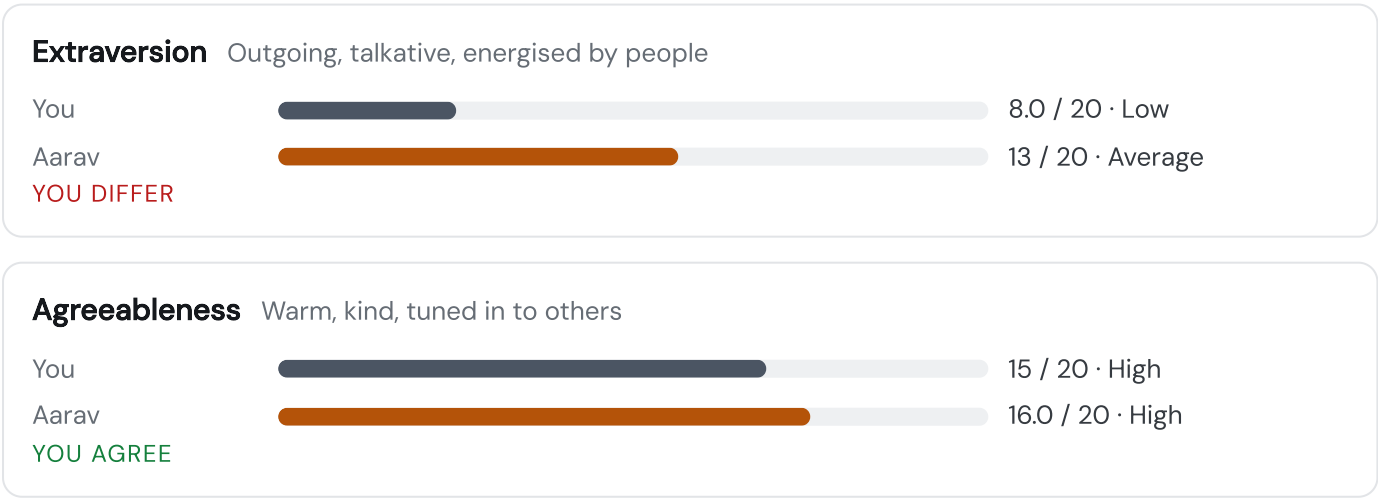
AI can describe a solution; it cannot yet build, integrate, and ship a working physical or software system end to end. The Builder who directs AI as a tool becomes far more productive; the Builder who only describes is exposed.

Parent view vs Child view

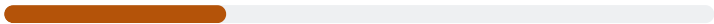
How you see Aarav, next to how Aarav sees themselves.

Both of your answers highlight Aarav's natural urge to invent and build. You notice how he imagines machines, not stories, while he sees himself as a bit more anxious during exams than he might show at home, noting he is "Relaxed at home. Before exams, not at all." Taking time to talk about how he handles exam stress together can help him stay confident while pursuing his love for practical projects.

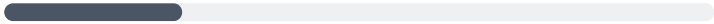
Big Five personality (IPIP)



Conscientiousness Organised, tidy, gets things done

You  12 / 20 · Average
Aarav  9 / 20 · Low
SOMEWHAT DIFFERENT

Neuroticism (emotional sensitivity) Moods swing, upset easily

You  8 / 20 · Low
Aarav  13.3 / 20 · Average
YOU DIFFER

Openness (intellect and imagination) Imaginative, enjoys ideas

You  16.0 / 20 · High
Aarav  18 / 20 · High
SOMEWHAT DIFFERENT

Work interests (RIASEC)

Your view, top three: **RIC** · Aarav's own answers, top three: **RIC**

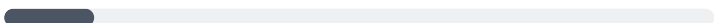
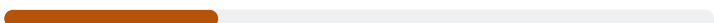
R Realistic Hands-on work with tools, machines, plants or animals

You  18 / 20 · High
Aarav  16 / 20 · High
YOU AGREE

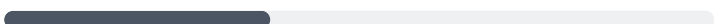
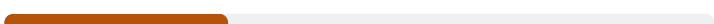
I Investigative Science, research, working out how things work

You  16 / 20 · High
Aarav  15 / 20 · High
YOU AGREE

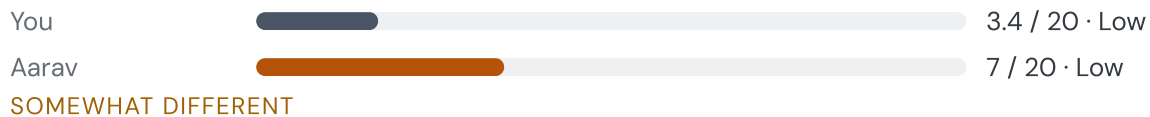
A Artistic Creating: writing, music, art, design, film

You  3 / 20 · Low
Aarav  6 / 20 · Low
SOMEWHAT DIFFERENT

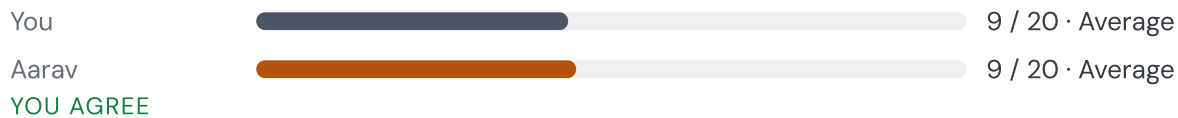
S Social Helping, teaching, caring for people

You  8 / 20 · Average
Aarav  6.3 / 20 · Low
YOU AGREE

E Enterprising Leading, persuading, selling, starting things



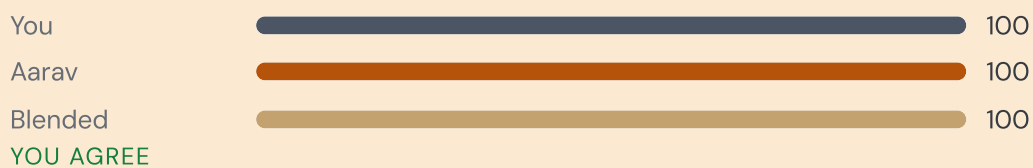
C Conventional Organising records, numbers and systems



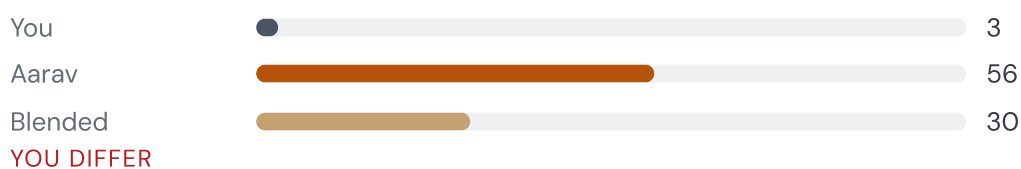
You and your child answered different interest questions: yours are public-domain IPIP (ORVIS) items about your child, theirs are the O*NET® Interest Profiler Mini-IP. Both are scored 0 to 4 per item and put on the same 0 to 20 scale per area, so compare the pattern (which areas are high or low), not exact numbers.

The seven patterns

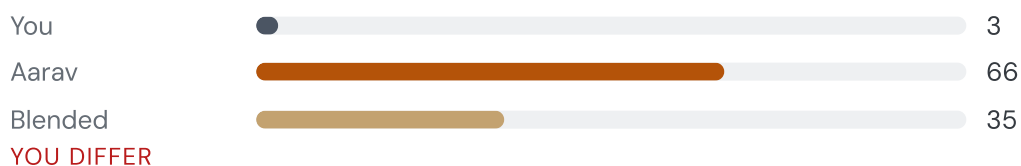
Builder FINAL MAIN PATTERN



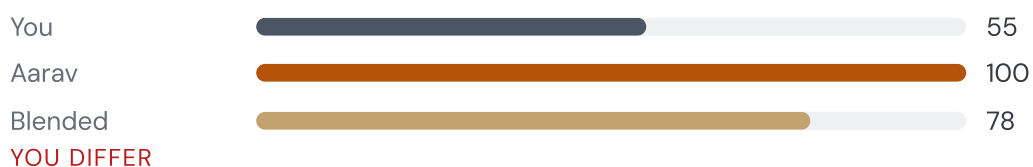
Healer



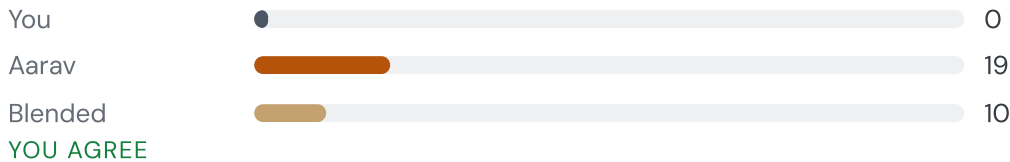
Storyteller



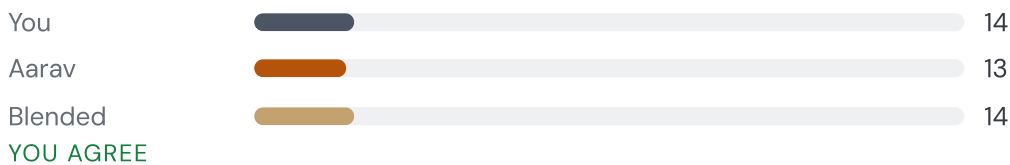
Strategist ALSO STRONG



Performer



Trader



Guardian



0 to 100 within each view: 100 is that view's strongest pattern and 0 its weakest. It is a ranking aid, not a percentage or a percentile.

Not yet normed on Indian students. These are scale scores with plain bands, not percentiles or ranks. Bands: Big Five item average below 2.5 = low, 2.5 to 3.5 = average, above 3.5 = high (on the 1 to 5 answer scale). Interests: below 7.5 = low, 7.5 to 12.5 = average, above 12.5 = high (out of 20). A scale is marked *low confidence* when more than 33% of its statements were skipped or described in words.

Where you agree and differ

Read differences as conversation starters, not as one of you being wrong.

WHERE YOU AGREE

- You both point to Builder as the main pattern.
- Personality: Agreeableness.
- Interests: Realistic, Investigative, Social, Conventional.

WHERE YOU SEE IT DIFFERENTLY

- Extraversion: Aarav rates it higher (1.25 apart on the 1 to 5 scale).
- Conscientiousness: you rate it higher (0.75 apart on the 1 to 5 scale).
- Neuroticism: Aarav rates it higher (1.33 apart on the 1 to 5 scale).
- Openness: Aarav rates it higher (0.50 apart on the 1 to 5 scale).

Thresholds: personality ratings less than 0.5 apart (on the 1 to 5 scale) = agree; 0.5 to under 1 = somewhat different; 1 or more = differ. Patterns: less than 20 apart = agree; 20 to 39 = somewhat; 40 or more = differ. Interests (0 to 4 per item): less than 0.5 apart = agree; 1 or more = differ. Low-confidence scales are not compared.

In their own words

Where you and Aarav chose to write instead of tap.

	YOU WROTE	AARAV WROTE
"Am relaxed most of the time"	Tapped: Moderately accurate	<i>"Relaxed at home. Before exams, not at all."</i>
"Talk to a lot of different people at parties"	<i>"Only with his cousins and his robotics friends. With new people he goes quiet."</i>	Tapped: Moderately accurate
"Feel others' emotions"	Tapped: Neither accurate nor inaccurate	<i>"I notice when my friends are upset but I don't always know what to say."</i>
"Do not have a good imagination"	<i>"He imagines machines, not stories. Give him a motor and he sees ten uses for it."</i>	Tapped: Very inaccurate

MORE OF YOUR WORDS

In free time at home, what does your child usually do?

"Opens old remotes and table fans with my screwdriver set. Built a small car with a motor after watching a YouTube video."

How does your child study for exams?

"Does past papers for physics and maths. Skips the reading-heavy social chapters till the last day."

Which school work does your child avoid the most?

"Hindi and social studies essays. He writes two lines and stops."

What has your child learnt on their own, from YouTube or friends?

"Taught himself basic Arduino and a little Python from YouTube."

A friend is upset at school. What does your child do?

"He doesn't say much in the moment. The next day he quietly fixed his friend's broken headphones."

MORE OF AARAV'S WORDS

Give career guidance to people

"Not sure. I help my friends with physics doubts, does that count?"

Which of these does your child not enjoy?

"Hides at the back for the annual day dance."

A relative asks, "What will you become?" Your child...

"Says 'something with robots'. His grandfather keeps saying IIT."

Marks come back lower than expected. Your child...

"Goes quiet for a day, then makes a new timetable and sticks it on the wall."

Your child wants a new phone or cycle. How do they ask?

"He never asks for phones. He asked for a soldering iron and showed me a price comparison from three shops."

In the summer holidays, what would your child happily do?

"Wants to go to a robotics summer camp. Also fixed the neighbours' Wi-Fi router."

The school gives a project with one month's time. Your child...

"Starts late but always builds a working model. His water-level alarm won a prize at the school science fair."

When your child dreams about life at 30, it looks like...

"Wants his own workshop or company, not a desk job."

Family conversation prompts

Pick one for this week. Ask, then listen more than you talk.

1. You and Aarav both point to Builder first. Ask: "What is one thing you would like to make, try or learn this year that uses this side of you?"
2. Aarav reports more worry or low moods than you see. This is worth a gentle, private chat: "Your answers say you sometimes feel low or get upset easily. What is that like for you?" If the feelings are strong or lasting, talk to the school counsellor.
3. Aarav describes a more outgoing side than you see at home. Ask: "Where do you get to be the chatty one? What is different there?"
4. You rate Aarav as more organised than Aarav does. Ask: "What feels hardest about keeping on top of things right now?"
5. Aarav's strongest interest area is Realistic (hands-on work with tools, machines, plants or animals). Ask: "If you could spend one day doing any job like this, which would you pick, and why?"

How the final result is blended

Blended pattern = half your view (the 30 everyday questions) + half your child's view (their personality and interest answers), each put on a 0 to 100 scale where 100 is that view's strongest pattern. Personality = the average of the two ratings, unless only one of them is reliable. Interests are shown side by side, not averaged, because you and your child answered different interest questions. The written report was finished before your child answered, so it follows your answers; this tab adds your child's view.

Big Five items: Mini-IPIP (Donnellan, Oswald, Baird & Lucas, 2006), from the International Personality Item Pool (ipip.ori.org), which is in the public domain. Wording lightly adapted for parents and for Class 9 to 12 students. ipip.ori.org. Interests: the 30-item O*NET® Interest Profiler Mini-IP, answered by the student, items unchanged. This page includes information from the O*NET Career Exploration Tools by the U.S. Department of Labor, Employment and Training Administration (USDOL/ETA). Used under the CC BY-ND 4.0 license. O*NET® is a trademark of USDOL/ETA. creativecommons.org/licenses/by-nd/4.0. Parent interest items: adapted from the Oregon Vocational Interest Scales (ORVIS; Pozzebon, Visser, Ashton, Lee & Goldberg, 2010), International Personality Item Pool (ipip.ori.org), public domain. ipip.ori.org/newORVISKey.htm

SECTION 4

Ten careers to explore

Ranked by fit with what you told us, not by prestige. Tap a card for the full detail.

1 Robotics & Mechatronics Engineer

Aligns perfectly with his love for taking apart gadgets, programming Arduino kits, and building working motorized models.

Fit with your child  **Strong fit**
Safe from AI  **Well protected**

How to get there	B.Tech in Mechatronics / Robotics Engineering via entrance exams like KCET, COMEDK, or JEE Main.
Colleges in India	RV College of Engineering, Bengaluru · BMS College of Engineering, Bengaluru · PES University, Bengaluru · MIT Manipal · PSG College of Technology, Coimbatore
Abroad, if relevant	TU Delft, Netherlands · National University of Singapore (NUS)
Where people work	ABB India · Systemantics · Fanuc India · Tata Advanced Systems · GreyOrange
Typical pay (indicative)	INR 7,00,000 – 12,00,000 per annum at the start, INR 25,00,000 – 45,00,000 per annum after about 10 years
Effect of AI	High demand. While AI optimizes control algorithms, human engineers are strictly required to design, assemble, and calibrate physical robotic hardware.
First step this year	Build a multi-sensor robot using his Arduino kit that can navigate around obstacles on his bedroom floor.

2 Embedded Systems & IoT Hardware Engineer

Leverages his self-taught Python, Arduino, and electronics troubleshooting skills to create interconnected smart devices.

Fit with your child  **Strong fit**

Safe from AI  **Well protected**

How to get there	B.Tech in Electronics & Communication Engineering (ECE) or Electrical Engineering.
Colleges in India	IIT Dharwad · NIT Surathkal · MS Ramaiah Institute of Technology, Bengaluru · IIIT Bengaluru · Vellore Institute of Technology (VIT)
Abroad, if relevant	Nanyang Technological University (NTU) · RWTH Aachen, Germany
Where people work	Bosch India · Texas Instruments India · Qualcomm Bengaluru · Samsung R&D · Schneider Electric
Typical pay (indicative)	INR 6,50,000 – 11,00,000 per annum at the start, INR 22,00,000 – 40,00,000 per annum after about 10 years
Effect of AI	Strong protection. AI can generate microchip firmware templates, but physical circuit design, board layout, and testing require human hands.
First step this year	Design a small home automation prototype using an ESP32 chip that turns an LED on via Wi-Fi.

3 Electric Vehicle (EV) Systems Engineer

Combines his passion for motors, circuitry, and practical mechanics with a rapidly expanding green technology sector.

Fit with your child  **Good fit**

How to get there	B.Tech in Electrical / Mechanical / Automobile Engineering followed by EV specialization.
Colleges in India	RV College of Engineering, Bengaluru · COEP Technological University, Pune · National Institute of Technology, Calicut · Jain University, Bengaluru
Abroad, if relevant	Chalmers University of Technology, Sweden
Where people work	Ather Energy · Ola Electric Bengaluru · Mahindra Electric · Bosch Mobility · TVS Motor Company
Typical pay (indicative)	INR 6,00,000 – 10,00,000 per annum at the start, INR 20,00,000 – 38,00,000 per annum after about 10 years
Effect of AI	Growing career path. Battery architecture, motor wiring, and thermal management in EVs require hands-on physical engineering.
First step this year	Study electric motor topologies and build a working mini DC motor motor driver circuit.

4 Industrial Product & Hardware Designer

Builds on his capacity to imagine machine uses and fabricate practical tools and consumer devices.

Fit with your child  **Good fit**

How to get there	B.Des in Industrial Design or Product Design via UCEED, NID DAT, or private design entrance tests.
Colleges in India	National Institute of Design (NID), Bengaluru/Ahmedabad · IIT Bombay (IDC) · Srishti Manipal Institute, Bengaluru · M.S. Ramaiah University of Applied Sciences
Abroad, if relevant	Umeå Institute of Design, Sweden
Where people work	Titan Company Bengaluru · Lextant · Godrej & Boyce · Elephant Design · Tata Elxsi
Typical pay (indicative)	INR 5,50,000 – 9,50,000 per annum at the start, INR 18,00,000 – 35,00,000 per annum after about 10 years
Effect of AI	AI generates 3D concept renders, but prototyping, ergonomics, material testing, and manufacturing setup require human designers.
First step this year	Learn free 3D modeling software like Fusion 360 to model an enclosure for his Arduino circuits.

5 Unmanned Aerial Vehicle (Drone) Engineer

Utilizes his skills in assembling motors, remote controllers, and sensors into functional flying systems.

Fit with your child  **Good fit**

How to get there	B.Tech in Aerospace, Aeronautical, or Mechatronics Engineering.
Colleges in India	IIT Madras · IIST Thiruvananthapuram · Alliance University, Bengaluru · MIT Chennai
Where people work	IdeaForge · Aarav Unmanned Systems · Asteria Aerospace Bengaluru · Garuda Aerospace
Typical pay (indicative)	INR 6,00,000 – 10,50,000 per annum at the start, INR 22,00,000 – 40,00,000 per annum after about 10 years
Effect of AI	High demand. Autonomous flight software is AI-driven, but airframe structural assembly, sensor mounting, and payload testing remain human-led.
First step this year	Assemble a basic DIY drone kit and program flight stabilization controllers.

6 Automation & Controls Engineer

Suits his ability to make systems run efficiently, like his prize-winning water-level alarm project.

Fit with your child  **Worth exploring**

Safe from AI  **Well protected**

How to get there	B.Tech in Instrumentation & Control Engineering or Electrical Engineering.
Colleges in India	BMS College of Engineering, Bengaluru · Netaji Subhas University of Technology (NSUT), Delhi · PSG Tech Coimbatore · Dayananda Sagar College of Engineering, Bengaluru
Where people work	Siemens India · Rockwell Automation · Larsen & Toubro · Honeywell Bengaluru
Typical pay (indicative)	INR 5,50,000 – 9,00,000 per annum at the start, INR 18,00,000 – 32,00,000 per annum after about 10 years
Effect of AI	Stable. Factory automation lines require physical installation, PLC programming, and on-site troubleshooting that remote AI cannot do.
First step this year	Experiment with relay switches and sensors to automate a household task like plant watering.

7 Biomedical Instrumentation Engineer

Channels his desire to build useful tools into medical devices, such as diagnostic machines and prosthetics.

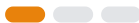
Fit with your child  **Worth exploring**

Safe from AI  **Well protected**

How to get there	B.Tech in Biomedical Engineering or Instrumentation Engineering.
Colleges in India	Manipal Institute of Technology · College of Engineering Guindy, Chennai · SRM Institute of Science and Technology · Ramaiah Institute of Technology, Bengaluru
Where people work	GE Healthcare Bengaluru · Philips Innovation Campus Bengaluru · Siemens Healthineers · Sree Chitra Tirunal Institute
Typical pay (indicative)	INR 5,00,000 – 8,50,000 per annum at the start, INR 16,00,000 – 30,00,000 per annum after about 10 years
Effect of AI	Protected. Medical devices require rigorous human testing, regulatory compliance, and physical calibration.
First step this year	Build a pulse-rate monitor using a simple heart-rate sensor module connected to his Arduino.

8 Applied Robotics Software Integrator

Connects his self-taught Python coding directly to physical machines and robotic movements.

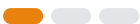
Fit with your child  **Worth exploring**

Safe from AI  **Well protected**

How to get there	B.Tech in Computer Science or Information Technology with focus on ROS (Robot Operating System).
Colleges in India	PES University, Bengaluru · IIIT Hyderabad · BMS Institute of Technology, Bengaluru · Thapar Institute, Patiala
Where people work	TCS Robotics Lab · Wipro Autonomous Systems · Intech Additive Solutions · KUKA Robotics India
Typical pay (indicative)	INR 7,50,000 – 13,00,000 per annum at the start, INR 26,00,000 – 48,00,000 per annum after about 10 years
Effect of AI	Very favorable. AI models require human integration engineers to bridge software code with real-world physical actuators.
First step this year	Learn basic Robot Operating System (ROS) concepts and write Python scripts to control virtual robot arms.

9 Renewable Energy Hardware Engineer

Appeals to his interest in electrical circuits and desire to build practical, real-world utility hardware.

Fit with your child  **Worth exploring**

Safe from AI  **Well protected**

How to get there B.Tech in Electrical / Energy Engineering.

Colleges in India NIT Karnataka (Surathkal) · IIT Delhi · JSS Academy of Technical Education, Bengaluru · Pandit Deendayal Energy University

Where people work ReNew Power · Tata Power Solar Bengaluru · Suzlon · Enphase Energy Bengaluru

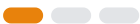
Typical pay (indicative) INR 5,50,000 – 9,00,000 per annum at the start, INR 18,00,000 – 32,00,000 per annum after about 10 years

Effect of AI Insulated. Solar inverter maintenance, grid hardware design, and battery storage integration require physical engineering.

First step this year Build a small solar-powered battery charger unit for mobile phones.

10 Maker Lab / FabLab Technical Director

Directly matches his long-term dream to own his own workshop or company focused on hardware prototyping.

Fit with your child  **Worth exploring**

Safe from AI  **Well protected**

How to get there B.Tech in Mechanical / Mechatronics Engineering followed by hands-on incubation management.

Colleges in India Srishti Manipal Institute, Bengaluru · Vellore Institute of Technology · Nitte Meenakshi Institute of Technology, Bengaluru · IIT Madras Research Park

Where people work IIM Bengaluru Innovation Lab · Workbench Projects Bengaluru · Maker Village · T-Hub Hyderabad

Typical pay (indicative) INR 5,00,000 – 8,50,000 per annum at the start, INR 18,00,000 – 36,00,000 per annum after about 10 years

Effect of AI Safe from automation. Managing physical prototyping tools like 3D printers, CNC machines, and soldering stations relies on physical presence and coaching.

First step this year Set up an organized mini maker workspace at home with proper tool storage and safety gear.

SECTION 5

Paths likely to frustrate

Not bad careers. Careers where the day-to-day would wear this child down.

Corporate Public Relations & Media Relations

You noted that Aarav runs away from public speaking and hides at the back for annual day dance performances. Forcing him into press conferences, media interviews, and constant networking would cause immense stress.

Signs it isn't working: Extreme anxiety before public presentations, refusal to participate in formal verbal networking, and feeling drained after large gatherings.

Pure Theoretical Mathematics / Pure Academic Research

Aarav's math marks are in the 70s, and he learns through hands-on application rather than abstract proofs. A career in pure academic math without physical building outputs would feel unrewarding to him.

Signs it isn't working: Loss of interest in theory when disconnected from physical hardware, complete boredom with abstract textbook proofs, and drop in motivation.

Journalism & Content Writing

You shared that he avoids Hindi and social studies essays, writing just two lines and stopping. A writing-centric path contradicts his core dharma of building physical objects.

Signs it isn't working: Severe procrastination on long descriptive written tasks, frustration with open-ended essay assignments, and total preference for hands-on building.

SECTION 6

The next three months

Set for Aarav in Class 10.

○ Month 1: Discovery

Channel his passion for taking gadgets apart into structured, safe hardware exploration.

1. Set up a dedicated desk with his soldering iron, wire strippers, and safety goggles.
2. Obtain discarded small appliances like an old printer or DVD player for deconstruction.
3. Catalog components like motors, gears, and circuit boards into labeled organizer bins.
4. Watch video tutorials on basic electronic components and schematic reading.

○ Month 2: Build a Small Project

Build an integrated mini-project combining his Arduino and Python skills.

1. Select a practical project, such as an automated plant-watering sensor or mini obstacle-avoiding car.
2. Write the basic control code in Python or C++ using Arduino IDE.
3. Assemble the hardware chassis using re-purposed materials or basic 3D printable files.
4. Test and debug hardware connections when the prototype does not work on the first try.

○ Month 3: Connect to Community

Expose him to local hardware maker culture in Bengaluru without forcing public speaking.

1. Visit a local Bengaluru maker space or hardware exhibition like Workbench Projects as a visitor.
2. Show his working prototype to an experienced mentor or maker for practical feedback.
3. Document his project steps with photos and short notes in a physical project notebook.
4. Explore local robot competition rules to understand how student hardware projects are structured.

SECTION 7

Subjects and stream

STREAM DIRECTION

Science Stream (PCM with Computer Science / Electronics). This provides the essential foundation for state engineering entrance exams like KCET and COMEDK, while reinforcing his coding and hardware building skills. An alternative to consider is the National Institute of Open Schooling (NIOS) or a vocational diploma in Mechatronics if traditional CBSE exam pressure becomes too restrictive.

PUT ENERGY INTO

KEEP STEADY

Subjects to put energy into

- **Physics.** Physics provides the physical laws behind electricity, motors, mechanics, and circuits that drive his building work.
- **Computer Science / Informatics Practices.** Enhances his self-taught Python skills, allowing him to write better code for microcontrollers and hardware projects.
- **Applied Mathematics.** Framing math as a tool for engineering calculations will help boost his confidence and scores above the 70s.

Do well enough, without over-investing

- Hindi
- Social Studies (History & Civics)

SECTION 8

Choosing a college

What the child does in college matters more than the name, but the setting still counts.

Colleges in India to look at

- **RV College of Engineering (RVCE), Bengaluru.** Excellent local tier-1 engineering institution with strong practical project labs and mechatronics options.
- **NIT Karnataka (NITK), Surathkal.** Top premier public institution in Karnataka with outstanding mechanical, electrical, and hardware facilities.
- **BMS College of Engineering, Bengaluru.** Strong practical engineering culture located in his home city with excellent industry ties.
- **PES University, Bengaluru.** Great infrastructure for robotics, practical electronics, and computer science integration.
- **MIT Manipal.** Provides vibrant student project clubs, formula student teams, and hands-on maker culture.

SETTINGS THAT SUIT THIS CHILD

- Institutions with active robotics clubs, maker spaces, and student formula racing teams.
- Colleges that evaluate students through practical lab work and project prototypes rather than pure theory.
- Campuses situated near technology hubs like Bengaluru that offer hardware industry internships.

SETTINGS THAT MAY HOLD THEM BACK

- Rote-learning focused coaching environments that punish practical tinkering and mandate 14-hour lecture schedules.
- Institutions with locked laboratories where students cannot work on independent projects outside class hours.

BEFORE YOU READ ON

Why pushing a child down a path rarely works

Most parents who choose a stream for their child do it out of love and worry. The research is fairly clear that it rarely helps, even with the best intentions.

- When the work suits the person, people are more satisfied and less likely to want to quit. It is one of the most consistent findings in workplace research.¹
- College students whose course matches their interests tend to get better grades.²
- Children do better, above all in their mental health, when parents support their own choices instead of pressuring them. A 2024 review of over 126,000 children found this holds across countries and cultures, not only in the West.^{3, 4}
- Closer to home: in a 2023 survey of 570 PUC students in Udupi preparing for entrance exams, 87% felt high pressure from their parents and more than half had low wellbeing.⁵

None of this means stepping back. It means your role is to guide, not to decide. The Bhagavad Gita says it plainly: better to follow your own path imperfectly than someone else's perfectly (3.35, 18.47).

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1. Kristof-Brown, Zimmerman & Johnson (2005), *Personnel Psychology: review of 172 workplace studies*
 2. Tracey & Robbins (2006), *Journal of Vocational Behavior*: 80,574 US college students
 3. Vasquez et al. (2016), *Educational Psychology Review: review of 36 studies*
 4. Bradshaw et al., accepted in *American Psychologist* (2024): 126,423 children and teenagers
 5. Pienyu, Margaret & D'Souza (2024), *Journal of Education and Health Promotion*: 570 PUC students, Udupi

SECTION 9

Parenting playbook

For you, not for your child. The most useful section.

How to talk to him

Speak to Aarav directly, calmly, and through concrete examples. Instead of asking open-ended questions like 'What do you want to be when you grow up?', ask about specific projects: 'What components do you need for your next Arduino setup?' Frame academic discussions around practical utility rather than relative scores. When discussing exam performance, focus on problem-solving: 'Let's check which physics problems were tricky and test them practically.' Keep conversations brief and focused on actions.

WHAT HELPS IN YOUR CONVERSATIONS

- Receiving useful tools, such as soldering irons or component starter kits, for good effort.
- Having dedicated workspace time at home where he can take apart gadgets without interruption.
- Visiting technology exhibitions, maker labs, and hardware markets like SP Road in Bengaluru.

WHAT SHUTS THEM DOWN

- Being forced to give speeches or perform in front of large crowds of relatives or guests.
- Lectures on relative comparison with cousins regarding entrance exam coaching ranks.
- Long descriptive writing tasks that feel disconnected from physical output.

When you disagree

When disagreements arise regarding study schedules or stream choices, avoid emotional arguments. Give him space to process his thoughts quietly. Present options logically with facts and let him review them. Ask him to write down a simple plan or timeline on paper, which matches his natural style of organizing.

Marks and exam pressure

Acknowledge your worry about JEE pressure and relatives' expectations openly. Reassure him that IIT is not the only path to a successful engineering career, especially in Bengaluru where top regional colleges offer great practical training. Help him balance textbook study with small weekend hands-on projects so his love of building stays active.

Friends and social life

Do not force him to be the life of the party or speak to unfamiliar guests. Respect that he connects with peers through shared activities, like his robotics club friends and cousins. Encourage small group activities focused on shared interests rather than large social gatherings.

STOP DOING

1. Stop comparing his math scores of 70s with theoretical high-scorers or mentioning grandfather's IIT expectations.
2. Stop pushing him into public speaking, debate, or stage performance activities to make him more outgoing.
3. Stop viewing his gadget disassembly as a mess; see it as his primary mode of learning.

START DOING THIS MONTH

1. Start praising his practical problem solving, like fixing the neighbour's Wi-Fi router or building the water-level alarm.
2. Start creating a dedicated tinkering corner at home with proper storage containers for his components.
3. Start exploring non-IIT engineering institutions in Karnataka like RVCE, PES, and BMS that value practical ability.

QUESTIONS TO ASK YOUR CHILD

1. What does Aarav think about "Robotics & Mechatronics Engineer"? Does it sound exciting, or does it feel more like our idea than his?
2. Has he ever tried anything close to "Embedded Systems & IoT Hardware Engineer"? What did he enjoy or dislike about it?
3. How does Aarav actually feel about Physics right now: interested, neutral, or forced?
4. This month's suggested step is: "Set up a dedicated desk with his soldering iron, wire strippers, and safety goggles." Ask Aarav if that sounds doable, or if he would rather do it a different way.

SECTION 10

Signs the path isn't right

What you may notice if he is pushed the wrong way.

In the next 6–12 months

- He stops building projects on weekends and hides his Arduino kits away.
- His marks in practical science labs begin to drop alongside his theory marks.
- He becomes unusually silent and avoids discussing school work entirely.

In 1–3 years

- He expresses severe dread about attending theoretical coaching classes.
- Complete burnout regarding mathematics and total avoidance of homework.
- Loss of interest in setting up timetables or planning his personal projects.

Later, in the 20s and 30s

- Choosing a desk-bound administrative major purely to satisfy family expectations.
- Expressing bitterness that he never got the chance to build real hardware or workshops.
- Feeling unfulfilled in a corporate job that lacks physical problem solving.

If you notice these, don't panic. Changing course is possible at any age; it is simply easier earlier.

SECTION 11

Resources

Chosen for Aarav in Class 10.

BOOKS

- The Design of Everyday Things by Don Norman
- Make: Electronics by Charles Platt
- Zero to One by Peter Thiel

CHANNELS AND PODCASTS

- Mark Rober (YouTube channel for creative engineering projects)
- GreatScott! (YouTube channel for practical electronics and Arduino DIY)
- How To Mechatronics (YouTube channel for robotics and mechatronics tutorials)

COMMUNITIES AND PROGRAMMES

- Bengaluru MakerSpace / Workbench Projects Community
- Arduino Official Student Community & Forums
- Atal Tinkering Labs (ATL) School Network

PEOPLE TO LEARN FROM

- A senior robotics undergraduate student from a local college like RVCE or PES.
- A practicing hardware design engineer or lab technician who works with embedded systems.

TOOLS

- Arduino Starter Kit with sensors, motors, and breadboards
- Autodesk Fusion 360 (Free educational software for 3D CAD modeling)

Counsellor summary: Aarav (sample student)

Class 10 · CBSE · Bengaluru

RIASEC CODE (STUDENT SELF-REPORT)

RIC

Realistic	16 / 20	High
Investigative	15 / 20	High
Artistic	6 / 20	Low
Social	6.3 / 20	Low
Enterprising	7 / 20	Low
Conventional	9 / 20	Average

O*NET® Interest Profiler Mini-IP, 30 items, 0 to 4 each, 0 to 20 per area.
Parent's view (different items: 24 public-domain IPIP ORVIS activities, 0 to 20 per area): RIC.

PATTERN (DHARMACODE ARCHETYPE)

Builder

Also strong: **Strategist** · clarity: strong
Parent view: Builder · Student view: Builder.
Mapping and blending rules: dharmacode.net, "How this report was made".

BIG FIVE SCALE SCORES (MINI-IPIP, 4 ITEMS EACH, RANGE 4 TO 20)

SCALE	PARENT (OBSERVER)	STUDENT (SELF)	AGREEMENT
Extraversion	8.0 / 20 · Low	13 / 20 · Average	You differ
Agreeableness	15 / 20 · High	16.0 / 20 · High	You agree
Conscientiousness	12 / 20 · Average	9 / 20 · Low	Somewhat different
Neuroticism (emotional sensitivity)	8 / 20 · Low	13.3 / 20 · Average	You differ
Openness (intellect and imagination)	16.0 / 20 · High	18 / 20 · High	Somewhat different

Not yet normed on Indian students. These are scale scores with plain bands, not percentiles or ranks. Bands: Big Five item average below 2.5 = low, 2.5 to 3.5 = average, above 3.5 = high (on the 1 to 5 answer scale). Interests: below 7.5 = low, 7.5 to 12.5 = average, above 12.5 = high (out of 20). A scale is marked *low confidence* when more than 33% of its statements were skipped or described in words.

Big Five items: Mini-IPIP (Donnellan, Oswald, Baird & Lucas, 2006), from the International Personality Item Pool (ipip.ori.org), which is in the public domain. Wording lightly adapted for parents and for Class 9 to 12 students. ipip.ori.org. Interests: the 30-item O*NET® Interest Profiler Mini-IP, answered by the student, items unchanged. This page includes information from the O*NET Career Exploration Tools by the U.S. Department of Labor, Employment and Training Administration (USDOL/ETA). Used under the CC BY-ND 4.0 license. O*NET® is a trademark of USDOL/ETA. creativecommons.org/licenses/by-nd/4.0. Parent interest items: adapted from the Oregon Vocational Interest Scales (ORVIS; Pozzebon, Visser, Ashton, Lee & Goldberg, 2010), International Personality Item Pool (ipip.ori.org), public domain. ipip.ori.org/newORVISKey.htm

SECTION 12

The seven patterns

How we describe the way a child thinks and acts.

Most children show one main pattern and a second one that is also strong. No pattern is better than another. The mistake is pushing a child into a life built for a different pattern.

Builder Vishwakarma	Makes things that did not exist before: building, fixing, designing how things work. • Main pattern
Healer Dhanvantari	Looks after people: care, patience, helping someone get better.
Storyteller Saraswati	Expresses through words, pictures and ideas: writing, art, media, culture.
Strategist Chanakya	Notices patterns and thinks ahead: analysis, planning, solving hard problems. • Also strong
Performer Krishna	Brings energy to people: expression, sport, entertainment, bringing others along.
Trader Lakshmi	Sees value and opportunity: buying, selling, deals, running something.
Guardian Bheeshma	Keeps things safe and in order: responsibility, rules, reliability, duty.

A LAST WORD

You know Aarav best. Your observation that he fixates on how things work and fixes headphones for friends reveals a deeply capable Builder. Do not let external pressure about IIT or top-percentile math scores obscure his natural talent. By protecting his joy of making things and guiding him toward applied engineering pathways, you are giving him the absolute best foundation for the 2035 economy.

How this report was made

You answered 30 everyday questions about Aarav. Each answer points to one of the seven patterns: choosing one option gives that pattern two points, choosing two options gives each one point, and saying what he avoids takes a point away. The two patterns with the most points become the main pattern and the one that is also strong in your view. Words you typed are not counted as points. They go straight to the writer, so the careers and advice follow what you actually said.

You also rated Aarav on 20 personality statements from the Mini-IPIP, a short public-domain Big Five questionnaire, and on 24 work activities from the public-domain IPIP Oregon Vocational Interest Scales. Aarav answered the same 20 statements about themselves plus the 30 work activities of the O*NET® Interest Profiler Mini-IP (a different interest questionnaire, so the two interest views are shown side by side, not averaged). These are scored by fixed rules (no AI): each scale is the average of its answered statements, statements worded the other way round are reversed, and a "let me describe it" answer is left out of the score. A fixed table turns the personality and interest scores into the seven patterns. In the Parent & child tab, your view and your child's view count half each in a blended pattern. The written report was finished from your answers before your child answered, so it follows your view. These scores are not yet normed on Indian students, so they are shown as plain scale scores with low, average and high bands, never as percentiles.

The report was then written with the help of AI, using only the scores above, the words you typed and Aarav's typed words and our guidance notes for each pattern. We do not use fingerprints or birth details. Use this alongside his own views and advice from his school. College names, pay and job trends are general guidance: please check current details before deciding. Something clearly wrong? Email hello@dharmacode.net and we will correct it.

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