Ananya Shah

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EDUCATION

- Currently in 2nd year of BTech in Computer Science and Engineering at Vellore Institute of Technology, Vellore.
- Hiranandani Foundation School, Thane (Classes 1-12).

SCHOLASTIC ACHIEVEMENTS

- **CGPA- 9.43/10** (VIT Vellore).
- **Class 12th boards (ISC)- 97.5% (stood overall 1st in school)** along with subject prizes in Physics and Chemistry. A consistent receiver of General Proficiency Awards (GP Honors).
- **Scholarship from the Council of Indian School of Secondary Education (CISCE) for** top performance in 12th boards.
- **Class 10th boards (ICSE)- 98%.**
- JEE MAINS (96.65 percentile), JEE ADVANCED (AIR 21,385), VITEEE (AIR 7259).

TECHNICAL SKILLS

- **Programming**: Java (DSA), C/C++, Python, Dart (Flutter), Assembly Language.
- **Web Development**: HTML, CSS, JavaScript, React.js, Three.js, Vite.
- **Databases**: MongoDB (Familiar – using with Node.js)
- **Version Control and Collaboration**: Git and GitHub
- **Software Tools**: Figma**,** Node.js, Flutter, Firebase.
- **Software Engineering**: Agile, Scrum, Project planning (Gantt Charts, Work Breakdown Structure), Cost Estimation (COCOMO), Diagrams (UML, Use Case, DFD, Class, Sequence, Activity), Test Case Design, SRS Documentation.
- **AI Algorithms**: BFS, DFS, A*, Hill-Climbing, Minimax, Alpha-Beta Pruning, Bayesian Belief Network, Planning in State-Space & Non-Deterministic Domains. Exploring Deep Learning.
- **Academic Tools**: Verilog HDL, MATLAB, OrCAD, Keil Micro Vision.

PROJECTS

- **Space Integration (Interior Designers React App)**: Developed an interactive React application featuring a 3D rotating model using **Three.js**. Implemented dynamic floor textures, image sliders, responsive form submission, and user walkthroughs for enhanced user experience.
- **Automated Retail Store**: Engineered an automation-based retail system using Agile and Scrum methodologies. Conducted sprint planning, task breakdowns, and iterative development cycles. Authored detailed Software Requirements Specification (SRS), designed UML diagrams (Use Case, Class, Activity), managed timelines via Gantt charts, and implemented test cases to ensure robust functionality.
- **VerbaGen Flutter App:** Google's Gemini API Competition: Developed Flutter frontend, integrated Firebase Authentication for a script-generation app, for content creators.
- **Research Work- Quantum Computing** (Ongoing): Exploring quantum annealing for Vehicle Route Optimization under Dr. Dhanoj Gupta (Assistant Professor at VIT), focusing on improving logistical efficiency mobility planning.
- **Innovative Energy Solution** – Ideathon: Developed a solar energy storage concept using phase change materials and repurposed EV batteries for nighttime electricity generation.

TECHNICAL ENGAGEMENTS AND COMPETITIONS

- **Technical Core Committee Member** – Soft Computing Research Society, VIT Chapter
- **Hackathons**: Google's Gemini API Competition (Worldwide), DevJams, SharkTech, HackBattle, Ideathon, Futurepreneurs *(Institute-Level: GDSC, ADG-VIT, IEEE-CS, IIC, E-Cell).*
- Strong teamwork and communication skills are demonstrated through collaborative project development and hackathon participation.