# Amey Shelar

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## Summary

Computer Engineering student passionate about turning raw data into reliable, useful systems. Hands-on experience building data dashboards, analytics platforms, database-backed applications, and machine-learning solutions. Skilled in Python, SQL, data processing, REST APIs, databases, Docker, and MLOps tools, with a strong interest in designing end-to-end data pipelines that transform information into actionable insights..

## Education

**Xavier Institute of Engineering** **2026**
*Bachelor of Engineering (Computer Engineering)*

**Sathaye College** **2022**
*HSC*

**Madhavrao Bhagwat High School** **2020**
*SSC*

## Experience

**IIT Bombay** **July 2026**
*Research Intern* *Mumbai*

Working on industry project - Dhatuverse

**Bhabha Atomic Research Centre (BARC)** **July 2025**
*Project Intern* *Mumbai*

Developed a research-focused web system under expert mentorship.

**IBM SkillsBuild** **June 2024**
*AI/ML Intern* *Virtual*

Worked on machine learning fundamentals and data analysis.

## Projects

**VPN Tunneling Dashboard (React.js, REST APIs, Charts & Data Visualization)**

- Developed dashboard to monitor VPN tunnels (IKE & Child SAs).
- Visualized data using graphs and structured tables.
- Handled real-time data and secure network monitoring.

**JATAYU Autonomous UAV (python, OpenCV, NanoDet, MAVLink, Flask, Raspberry Pi)**

- Developed autonomous UAV for AI-based human detection and tracking..
- Implemented real-time navigation using stereo vision and depth estimation.
- Worked on hardware integration and control logic.

**Retail Optimization Platform(React.js, Node.js, Express.js Supabase, YOLO, OpenCV, Stripe)**

- Developed web platform for retail analytics and inventory tracking.
- Implemented data-driven insights for business optimization.
- Designed scalable system for startup use-cases.

## Skills

- **Languages**: c++, Python, JavaScript,React
- **Frameworks:**Next.js, Express.js, Tailwind, Bootstrap,FastApi
- **Databases:** MongoDB, MySQL,MongoDB,SQL lite,
- **Data Engineering**: ETL/ELT fundamentals, data pipelines, data cleaning and transformation, data modeling, aggregation pipelines
- **Tools:** Git, Node.js, Postman, Azure DevOps,Github
- **AI & Machine Learning:** Predictive Modeling, Model Evaluation, Langchain,yolo,HuggingFace,OpenCV

## Certifications

- AWS Academy Graduate
- Project Appreciation – BARC
- Project Appreciation – Client
- Data Analytics with Power BI and ChatGPT (Infosys Springboard)