

AYUSH PANDEY

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Education

VIT Bhopal University, Bhopal

B.Tech Computer Science & Engineering

2022 - 2026

Grade/CGPA: 8.52/10

Internships

Software Engineering Intern

Kukflowjob private limited

Present

Remote

- Engineered the **React** frontend, establishing component architecture, routing, and code-splitting, which culminated in a **20%** reduction in median page load times.
- Spearheaded the integration of **AI** pipelines into frontend inputs to deliver **contextual recommendations**; orchestrated collaboration with **backend** and **product** teams on **API contracts** and the seamless onboarding of AI endpoints.
- Executed a comprehensive **SEO** strategy, including **metadata**, **structured data**, and sitemaps, and developed **automation/scraping** scripts that replaced manual product imports, enhancing operational efficiency.

Technical Skills

Languages: Python, Java, C++, TypeScript

Web Technologies: React, Angular, Node.js, HTML/CSS, Spring Boot

Databases & ORMs: MySQL, MongoDB, PostgreSQL, Prisma, Drizzle, ORM

CI/CD: Docker, Git, RESTful APIs, Kafka, Upstash Redis, WebSockets, Jest, Postman, Linux, AWS, GCP

Projects

Fraud Detection AI System | *Python, Kafka, Random Forest, Scikit-learn*

[Github Link](#)

- Attained a **99.95% accuracy** and a **0.94 ROC-AUC** score by training a **Random Forest Classifier** on the 'ccprod' dataset with fine-tuned hyperparameters.
- Executed a **sub-millisecond prediction pipeline** to process **10,000 TPS** using **16 parallel consumers and predictors**, supporting 300 concurrent users in real-time.
- Orchestrated a **scalable Kafka event-streaming architecture** with configurable batch processing, which achieved **92.77% precision** and **78.57% recall** in fraud detection, as validated by **Locust** performance testing.

Momentum (AI-Powered Productivity Engine) | *Next.js, Go, PostgreSQL, Redis*

[Github Link](#)

- Constructed an AI-Powered Productivity Engine with a dual user-manager system, empowering managers to assign, verify, and approve tasks, thereby boosting user accountability.
- Launched a real-time, competitive quiz feature for test preparation, accommodating up to **6 simultaneous players** with speed-based scoring from a vast library of over **1000 questions** across **8+ categories**.
- Integrated **Google Calendar** to streamline task scheduling and management, simplifying the workflow for both.

AI-Powered BRTS Chatbot (Omdena) | *Python, Docker, OSRM, Hugging Face, KD-Tree*

[HF Link](#)

- Collaborated in a global team of **75 at Omdena** to design and implement a multi-component BRTS chatbot, integrating a **Hugging Face** frontend with a containerized **OSRM** backend.
- Deployed the high-performance OSRM backend using **Docker**, loading pre-processed map data to enable real-time, complex route calculations via the MLD algorithm reducing time from **2 mins to 10 secs**.
- Implemented a **KD-Tree** algorithm to optimize geospatial queries, enabling instantaneous nearest-bus-stop detection from user coordinates.

BankLLM (AI-Powered Recommendation System) | *LangChain, Streamlit, MySQL*

[Github Link](#)

- Optimized an AI system utilizing **LangChain** and **Google Generative AI** to deliver tailored bank product recommendations for both new and existing customers.
- Devised a dual-path engine analyzing existing customer financial history and processing new customer data, including bank statements using **Tesseract OCR** complete passbook read around **30 - 40 pages**.
- Assembled a full-stack application with a **FastAPI** backend for core logic, a **MySQL** database hosted live on Aiven, and an interactive **Streamlit** frontend.

Achievements

- Guardian at Leetcode:** Solved **700+** problems, earning the **Guardian** badge, and secured a global **9th rank** in **Weekly Contest 437** also **1137 rated on codeforces**.
- Asyncs Reimagine Hackathon:** Advanced through rounds by implementing **Three.js** to animate 3D models of revamped **ISRO** and **Bluestone** projects. [Bluestone Link](#) [Isro Link](#)

Certificates

AWS Certified Cloud Practitioner (Amazon Web Services training)

Certified DevOps Professional (Oracle University)

Co-curricular Activities

- Linpack Club President:** Led 2 Hackathons and 3 large-scale speaker sessions/workshops (e.g., Fake currency detection using MATLAB), boosting member participation by 50% and new memberships by 30%.