

ARCHIT PRASAD

Cloud Computing & AI Engineer

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PROFESSIONAL SUMMARY

Engineering graduate with expertise in Python. Dedicated to writing clean, efficient code and building scalable software solutions.

EDUCATION

Vellore Institute of Technology	India
B.E. in Computer Science Engineering (Cloud Computing)	2022 - 2026
• CGPA: 7.79/10	
• Relevant Coursework:	Data Structures & Algorithms, Database Management Systems (DBMS), Software Engineering.

TECHNICAL SKILLS

- **Languages:** Python, SQL, C++.
- **Web Frameworks:** FastAPI, Flask, React.js.
- **Core Concepts:** Object-Oriented Programming (OOP), SDLC, Data Structures, System Design.
- **Tools & Platforms:** Git/GitHub, Docker, AWS (EC2, S3), Firebase, Postman.
- **Databases:** PostgreSQL, MySQL, MongoDB, Cloud Firestore.

TECHNICAL PROJECTS

Conversational Data Analysis Agent (GenAI)	Sep 2025
• Architected a robust full-stack solution using LangChain to parse natural language into executable code, demonstrating strong problem-solving skills.	
• Engineered high-precision prompts for Mistral-7B, ensuring code quality and reliability when handling complex Pandas operations on large datasets.	
• Deployed the application with session state management, focusing on a seamless user experience and reducing data exploration time by 90%.	
Docs-Bot (RAG-Based Chatbot)	Sep 2025 - Oct 2025
• Developed a scalable Retrieval-Augmented Generation (RAG) system handling diverse data formats, optimizing information retrieval speed by 95%.	
• Implemented efficient vector search algorithms using ChromaDB, showcasing attention to detail in performance optimization and low-latency inference.	
• Integrated source-citation features to ensure data transparency, aligning with best practices for building trustworthy software solutions.	
AI Audience Analytics System	Nov 2025
• Built a real-time analytics system using Computer Vision, managing the complete software journey from data ingestion to visualization.	
• Optimized backend performance using Flask and OpenCV to process high-velocity video data, ensuring stability and efficiency.	
• Designed a responsive dashboard with a focus on UI/UX, collaborating on the frontend to present complex data in an accessible format.	
Facial Recognition System	Aug 2025 - Sep 2025
• Constructed a high-accuracy recognition model using Siamese Networks, applying advanced algorithmic concepts to solve real-world security challenges.	
• Implemented efficient embedding generation for fast similarity comparisons, demonstrating strong optimization skills.	
• Engineered an automated testing suite to hunt down bugs and ensure consistent model performance across various test cases.	

CERTIFICATIONS

• Oracle Foundations Associate – Oracle	Sep 2025
• Data Analytics Job Simulation – Deloitte	Jun 2025
• DevOps Fundamentals – IBM (Covered CI/CD, Containerization)	Apr 2025

ACHIEVEMENTS

- **Finalist**, IIIT UNA Hackathon: Collaborated in a cross-functional team to build innovative software.
- **Finalist**, Dataverse Hackathon (DTU): Recognized for excellence in data-driven problem solving.
- **Top 12**, ZS Beats Global Analytics Competition: Ranked in the top tier of participants globally.