

Pranay Shaurya

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PROFILE SUMMARY

Aspiring Python Backend Developer with strong foundations in Python and database-driven application development. Experienced in building modular backend systems and AI-powered applications using FastAPI, SQL, and cloud platforms. Passionate about writing clean, maintainable code and contributing to real-time project environments.

EDUCATION

Vellore Institute of Technology

Sep 2022 – 2026

Bachelor of Technology, Computer Science (Health Informatics)

CGPA: 8.16/10.0

TECHNICAL SKILLS

Programming: Python, SQL, C++

Backend: FastAPI, Basic REST API Concepts

Databases: MySQL, PostgreSQL

Generative AI: RAG Pipelines, LangChain, ChromaDB, Prompt Engineering

Cloud & Tools: Google Cloud Platform, Git, Jupyter Lab

Machine Learning: Scikit-learn, TensorFlow

EXPERIENCE

Generative AI Virtual Internship – Google Cloud

2025

- Built AI-powered backend workflows using Python and Gemini on Google Cloud.
- Implemented API-based model invocation, embedding generation, and response handling pipelines.
- Designed modular architecture enabling scalable and production-ready deployment.
- Gained exposure to structured logging, evaluation strategies, and cloud-based integration.

PROJECTS

Gen-AI Document QA System (Backend Architecture) - *Python, FastAPI, LangChain, ChromaDB*

- Designed modular backend system separating ingestion, retrieval, and generation layers.
- Developed REST APIs using FastAPI for document upload, embedding generation, and query handling.
- Implemented Top-K similarity retrieval for contextual response generation.
- Optimized embedding parameters and chunking strategy to improve retrieval relevance.
- Structured codebase for scalability and integration into production environments.

Retail Sales Analytics System - *Python, MySQL, Pandas*

- Designed relational schema for customer, product, and transaction datasets.
- Developed 25+ analytical SQL queries using JOINS, CTEs, and window functions.
- Performed ETL transformations and data cleaning using Pandas.
- Generated revenue and cohort analysis reports for business insights.

Alzheimer Disease Detection using CNN - *Python, TensorFlow*

- Preprocessed 6000+ MRI scans using normalization and augmentation techniques.
- Implemented CNN model with 5-fold cross-validation.
- Reduced overfitting by 25% through hyperparameter tuning.
- Achieved 92% classification accuracy, research accepted for Springer publication.

CERTIFICATIONS

- Google Cloud – Generative AI Virtual Internship
- AWS Academy Graduate – Cloud Foundations

LANGUAGES

English (Fluent), Hindi (Fluent)