

Pranay Shaurya

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PROFILE SUMMARY

Aspiring Operations Research and Data Science professional with strong analytical foundations in Python, SQL, and Probability & Statistics. Experienced in data-driven problem solving, structured analysis, and modeling business scenarios using quantitative approaches. Interested in applying optimization concepts and mathematical reasoning to retail and supply chain decision problems.

EDUCATION

Vellore Institute of Technology – Bachelor of Technology, CSE (Health Informatics)

Sep 2022 – 2026

CGPA: 8.16/10.0

TECHNICAL SKILLS

Programming: Python, SQL, C++

Data & Analytics: Pandas, NumPy, MySQL, EDA

Databases: MySQL (Hands-on), PostgreSQL (Working Knowledge)

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

Core Concepts: Probability & Statistics, Mathematical Reasoning, Data Structures & Algorithms, DBMS

EXPERIENCE

Generative AI Virtual Internship – Google Cloud

2025

- Worked on structured AI workflows involving data preprocessing and evaluation.
- Gained exposure to scalable cloud-based solution design.
- Strengthened problem decomposition and systematic experimentation skills.

PROJECTS

Retail Sales Analytics System

MySQL, Python (Pandas)

- Designed relational schema for structured retail datasets (customers, products, transactions).
- Developed 25+ analytical SQL queries using JOINS, CTEs, and window functions.
- Performed demand trend analysis and revenue concentration study using cohort and Pareto analysis.
- Evaluated pricing and product performance patterns to support data-driven inventory decision insights.

AI-Based Alzheimer's Detection

Python, TensorFlow

- Defined the problem scope for Alzheimer's detection using MRI data and designed a structured experiment plan.
- Conducted preprocessing and exploratory analysis on 6000+ MRI scans to ensure data consistency and reliability.
- Implemented CNN model with 5-fold cross-validation and hyperparameter tuning to improve performance.
- Evaluated model performance using metrics (accuracy, precision, recall, confusion matrix); achieved 92% accuracy.
- Documented methodology, assumptions, and findings; research accepted for publication in Springer.

Gen-AI Document QA System (RAG-Based Architecture)

Python, LangChain, ChromaDB

- Built modular data pipeline for ingestion, embedding, and similarity-based retrieval.
- Applied structured problem decomposition to optimize retrieval precision.
- Improved response relevance through iterative parameter tuning and evaluation.

CERTIFICATIONS

- Google Cloud – Generative AI Virtual Internship
- AWS Academy Graduate – Cloud Foundations
- Languages: English (Fluent), Hindi (Fluent)