Aditya Sachan

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Summary

Data Science undergraduate with expertise in **Python, SQL, and machine learning**, skilled in analyzing large datasets, building predictive models, and creating data-driven solutions. Proficient in **visualization tools and database management**, with strong problem-solving and collaboration skills.

Education

Pranveer Singh Institute of Technology, Kanpur — **2022 - 2026**
CSE(Data Science) — B.Tech.
8.8 (Till Now)

Puranchandra Vidyaniketan — **2022**
86.2% — Intermediate

Puranchandra Vidyaniketan — **2020**
93.1% — High School

Skills

Programming and Querying
C++, Python, SQL

CS Fundamentals
Data Structures & Algorithms, OOP, Operating Systems, DBMS, Complexity Analysis

Tools & Platforms
VS Code, Git, MySQL, PostgreSQL, Excel, Tableau, Power BI

Core Concepts
Software Development, Object-Oriented Design, Problem Solving, System Design Basics

Soft Skills
Analytical Problem-Solving, Critical Thinking, Handling Ambiguity, Documentation & Knowledge Sharing, Collaboration & Teamwork

Projects

Netflix Recommendation System
(Python, Pandas, Scikit-learn)

- **Owned end-to-end development** of a personalized recommender system using the **Netflix Prize dataset (100M+ ratings, 480K users, 17K movies)**.
- Designed system architecture to handle **99.8% sparse data**, applying **KNN collaborative filtering** and **XGBoost regression** for scalable performance.
- **Optimized feature engineering pipeline**, improving accuracy by **~15% over baseline models** while reducing computational overhead by **25%**.
- **Documented architecture, assumptions, and results**, enabling reproducibility and cross-team knowledge sharing.
- Worked in an **Agile-style workflow**, iteratively testing and validating approaches with peers to refine solution design.

Face Recognition Attendance Management System
(Python, Open-CV, Haar Cascade)

- **Designed, implemented, and deployed** a real-time attendance system with **automated facial recognition** and fallback manual entry support.
- Trained **LBPH recognition model**, achieving **95%+ identification accuracy** across diverse datasets.
- Integrated **MySQL backend** with dynamic table creation for secure, scalable storage and fast retrieval of records.
- Increased attendance logging efficiency by **40%** and reduced manual entry errors by **30%**, improving overall reliability.
- Practiced **Agile methodologies** by gathering feedback, iterating system design, and maintaining clear communication through documentation and peer reviews.

Certifications

- **CS 50 - Harvard University**
- **C++ - GFG**
- **Python Complete Course - Udemy**
- **DBMS - Scaler**
- **SQL Analyst - Data Camp**
- **Machine Learning Specialization - Coursera**
- **Gen AI Bootcamp - Codebasics(Pursuing)**