ANNIE MAHAJAN

+91-9596842411   mahajanannie411@gmail.com   linkedin.com/in/annie-mahajan   github.com/AnnieMahajan454

Education

Vellore Institute of Technology, Chennai   **Chennai, India**
B.Tech in Computer Science & Engineering (AI & Robotics) – CGPA: 8.35/10   *Expected July 2027*
− Relevant Coursework: Probability & Statistics, Data Mining, DBMS, Machine Learning Fundamentals

Research Experience

AI-Driven Anomaly Detection in CT-Guided Surgery (CINS 2025, Presented at BITS Dubai)   **2025**
Python, YOLO, U-Net, OpenCV, Pandas, NumPy   *Dubai, UAE*
− Contributed to a deep learning-based pipeline for anomaly detection in CT-guided surgical imaging.
− Worked on preprocessing, model experimentation (YOLO/U-Net), and evaluation workflows.
− Supported results analysis and preparation of findings for conference presentation.

Key Projects

Stock Portfolio Analyzer | Python, SQL, Power BI   **2026**
− Developed a portfolio tracking tool using live market data APIs (yfinance) and PostgreSQL storage.
− Computed financial risk metrics including returns, volatility, Sharpe ratio, and drawdown.
− Designed an interactive Power BI dashboard for portfolio performance monitoring.

Smart Construction Planner | AI, ML, Python, scikit-learn   **2025**
− Implemented regression and clustering models for improving construction planning workflows.
− Performed EDA, outlier detection, data cleaning, and feature selection on urban datasets.
− Built preprocessing pipelines enabling scenario-based resource allocation simulations.

Technical Skills

Programming: Java (Primary), Python, SQL
Core CS: Data Structures and Algorithms, OOP, DBMS
Machine Learning: scikit-learn (Basics), CNN/U-Net Exposure, Data Preprocessing
Databases: MySQL, PostgreSQL
Tools: Git/GitHub, Power BI, Excel

Experience

Business Development Intern   **Sep 2025 – Dec 2025**
Sentrix Robotics Pvt Ltd   *Remote*
− Analyzed CRM and funnel datasets using SQL and Pandas to identify churn patterns and revenue gaps.
− Automated internal reporting workflows in Excel and Python to improve tracking efficiency.
− Supported cross-functional teams with KPI dashboards and data-backed insights.

Operations Manager   **Jun 2025 – Aug 2025**
Event Managers Club, VIT Chennai   *Chennai, India*
− Led execution of 300+ large-scale events with 10,000+ participants across technical and cultural domains.
− Designed Excel-based tracking systems for budgeting, vendor operations, and delivery timelines.
− Managed cross-functional teams of 25+ members ensuring consistent on-time completion.

Leadership & Engagement

Core Committee Member   **Dec 2024 – Aug 2025**
Event Managers Club, VIT Chennai
− Mentored volunteers and introduced structured workflows to improve execution efficiency.
− Coordinated sponsorship outreach, vendor negotiations, and internal reporting processes.

Certifications

Oracle Data Science Professional | Oracle Generative AI Professional | Python, C & C++ – IIT Bombay | Advanced Excel