

Mukul Mehta

Bachelor of Computer Applications (BCA) Undergraduate

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Portfolio: <https://mukulportfolio.streamlit.app/>

Profile

Machine Learning and MLOps-focused undergraduate experienced in building **end-to-end, production-ready machine learning systems**. Strong in data pipelines, feature engineering, model training, evaluation, and deployment using **FastAPI, Docker, AWS, and MLflow**.

Projects

Salary Intelligence Platform (End-to-End Data & ML System)

- Built an end-to-end ML pipeline using FastAPI, Docker, and AWS EC2 for salary prediction.
- Implemented data ingestion and storage using MySQL.
- Performed EDA, feature engineering, and model training with MLflow experiment tracking.
- Developed interactive dashboards in Power BI for salary insights and business intelligence.
- Automated CI/CD pipeline using GitHub Actions and deployed using Docker on AWS EC2.

Hybrid Movie Recommendation System

- Designed a two-stage hybrid recommender using collaborative filtering for candidate generation and TF-IDF for content-based refinement.
- Built an SVM-based meta-ranker and evaluated using Precision@K, Recall@K, and NDCG@K.
- Exposed real-time top-N recommendations via FastAPI, containerized with Docker, and deployed an interactive Streamlit interface.

Telecom Customer Churn Prediction System

- Built an end-to-end churn prediction model using Random Forest and XGBoost.
- Addressed class imbalance with SMOTE and improved recall; explained predictions using SHAP.
- Tracked experiments and versioned models with MLflow.
- Containerized with Docker and deployed a Streamlit app for real-time analysis.

Education

Bachelor of Computer Applications (BCA) Graphic Era Hill University, Haldwani CGPA: 9.00 2023–2026

Skills

Programming & Databases: Python, SQL, MySQL, MongoDB

Data Analysis: Pandas, NumPy, EDA, Power BI, Excel

Machine Learning & NLP: Scikit-learn, Random Forest, XGBoost, Feature Engineering, Model Evaluation, TF-IDF, Collaborative Filtering

Backend & MLOps: FastAPI, Streamlit, Docker, AWS EC2, MLflow, DVC, CI/CD, Git, GitHub, Jenkins, GitLab, GitHub Actions

Certifications

CS50's Introduction to Programming with Python — Harvard University

Supervised Machine Learning (Regression & Classification) — Coursera

Leadership & Activities

Sports Captain (Football); secured 10th position in a 6 km cross-country race. Qualified Group-1 Army Recruitment; former NCC Cadet (77 Battalion). Active member of the Tech Club and CRC, GEHU Haldwani.