

# Mukul Mehta

Bachelor of Computer Applications (BCA) Undergraduate

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## Profile

Computer Applications undergraduate with strong skills in Python, SQL, and Machine Learning. Experienced in building and deploying data-driven applications using FastAPI, Streamlit, and AWS. Seeking an entry-level role in analytics or machine learning.

## Skills

- **Programming:** Python, SQL
- **Machine Learning:** Scikit-learn, XGBoost, Model Evaluation, Feature Engineering
- **Data Analysis:** Pandas, NumPy
- **Web & Deployment:** FastAPI, Streamlit, Docker, AWS (EC2)
- **Databases:** MySQL, MongoDB
- **Tools:** Git, GitHub
- **Behavioral Skills:** Problem-solving, Team Collaboration, Communication

## Education

- **Bachelor of Computer Applications (BCA)** Aug 2023 – Jun 2026  
Graphic Era Hill University, Haldwani  
CGPA: 9.09

## Experience & Projects

### • Hybrid Movie Recommendation System

Python, Pandas, Scikit-learn, FastAPI, Docker, AWS

- Designed and implemented a learning-based hybrid recommendation system combining item-based collaborative filtering and TF-IDF content similarity.
- Trained an SVM meta-model to optimally combine collaborative and content-based similarity scores for improved recommendation ranking.
- Developed a FastAPI-based REST service to provide real-time top-N movie recommendations.

### • Telecom Customer Churn Prediction System

Python, Scikit-learn, XGBoost, SMOTE, SHAP, Streamlit

- Developed an XGBoost-based churn prediction model with preprocessing, feature engineering, and SMOTE-based class imbalance handling.
- Applied SHAP for model interpretability and feature impact analysis.
- Deployed an interactive Streamlit web application for real-time churn prediction.

## 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.