Devansh Parmar

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Aspiring data scientist with a solid foundation in statistical analysis and machine learning mathematics, passionately committed to unravelling complex predictive challenges through data-driven insights and advanced statistical and machine learning techniques.

EDUCATION

Indian Institute of Technology, Madras BS in Data Science and Applications (pursuing)   **Oct 2020-2025**

   Completed a Diploma in Data Science and a Diploma in Programming   **Oct 2020 - Jan 2023**
- **CGPA**: 8.30
- **Relevant Coursework:** Machine Learning(Foundation & Hands-on), Deep Learning, Business Analytics, AI: Search Methods for Problem-Solving, Statistics for Data Science, Probability, Linear Algebra, DBMS (including SQL), Web Dev using Vue js

DPG ITM, Gurugram

   B.Tech in Computer Science with a specialisation in Data Science   **Aug 2020-2024**

Manav Rachna International School, Faridabad

   *XII CBSE **94.4 %***   **2018**
   *X CBSE **CGPA: 10***   **2016**

PROJECTS

Kaggle Competitions
- Store Sales - Time Series Forecasting: Achieved **world rank of 83/722 (top 12%)** by using an Exponential Smoothing model after meticulous statistical analysis of time series data and data visualisation.
- Student Enrolment Status: Predicted student dropout with an **F1-major score of 0.76** by utilising EDA & feature engineering(made use of PCA, outlier removal and oversampling to improve score) and implementing a multi-class classification model using gradient boost.
- Optiver - Trading at the Close: Achieved world rank of 2838/4436 by utilizing LGBM(light gradient boost), optimized model parameters with Optuna, and applied advanced feature engineering techniques, to predict daily closing stock prices

Simulated English Premier League season 2021-22 using machine learning model that predicts football scorelines

Successfully predicted 1st place, 2nd place and 4th place position after simulating a total of 380 football matches by building a robust multiclass ML model using Adaboost Classifier trained on previous 4 seasons of premier league match results and players skills data. The classifier predicts the scoreline for each match by predicting home and away goals based on player ratings, team formations etc.

Smart Home Automation— Computer Vision project for real-time intruders and fire alerts on mobile app

Developed a Smart Home Automation system utilizing computer vision techniques for real-time intruders and fire alerts on a mobile app. Integrated YOLO object detection, face recognition, and custom-trained models for fire detection. Orchestrated a streamlined Python backend with Flask APIs to swiftly transmit detection data to the Flutter app in real time, ensuring prompt alerts.

Movie Recommendation System for a mobile APP

Developed and implemented a movie recommendation system integrated with a mobile app, leveraging scikit-learn for data processing, Natural Language Processing (NLP) and ML techniques such as text vectorisation and cosine similarity for finding similar movies. Deployed a Flask backend for RESTful APIs to facilitate communication between the model and the frontend (flutter app).

EXPERIENCE

2ByteCode   **Oct 2023 -Dec 2023**
Consulted at a startup as a business/data analyst
- Applied Screens & frequency analysis, and conducted churn and retention rate calculations using Python to meticulously reveal intricate user engagement patterns, identifying retentions and drop-offs for data generated by flutter academy app users.
- Proposed data-driven targeted strategies, including user classification. screen optimisations such as reducing advertisements on screens with higher drop-off, to enhance user satisfaction and reduce churn rates.
- Also proposed a Real-time word graph summarising key sentiments and pain points from user reviews on the Play Store

Business Data Management capstone project, IIT MADRAS BS Degree, GRADE: A, Project Report   **December 2022**
Business/Data Analyst for an Organic food store
- Conducted data collection, engineering, and cleaning of primary business data, applying data visualization techniques to pinpoint underperforming SKUs. Utilized clustering algorithms to prioritize SKU groups based on performance, leading to a significant reduction in product line diversity.
- Leveraged Market Basket Analysis with Python's Apriori algorithm to uncover insights and associations for targeted marketing and sales campaigns. Identified a sales drop during the monsoon season through trend analysis and proposed a data-driven solution, recommending a delivery channel with a lesser negative correlation to seasonal sales compared to walk-in channels.

SKILLS

Programming Languages & Development: Python, Java, JavaScript, HTML, CSS, Flask, Vue Js (javascript Frontend web framework), web scrapping, Git, webhooks, celery

Data Science, Machine Learning, Deep Learning: Proficiency in Numpy, Pandas, Time series analysis, Hypothesis testing, sci-kit-learn, Excel, Data visualisation(matplotlib &Seaborn), Regression & Classification problems, Computer Vision**,** Object detection & classification & face recognition.