Manish Wahale

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EDUCATION

- **Rajiv Gandhi Institute of Petroleum Technology** — Jais, India
  Bachelor of Technology in Computer Science and Technology CPI: 7.62 — *Dec 2020 - May 2024*
- **Shri Shivaji Science College** — Nagpur, India
  Intermediate: 88.5% — *2020*
- **T.B.R.A.N'S Mundle English Medium School** — Nagpur, India
  Matriculation: 94% — *2018*

PROJECTS

Real Time Music Recommendation System *(Ongoing)*

- Building a content-based music recommendation system to recommend similar songs based on the liked songs.
- Streamed the Spotify music data with more than 600k tracks using Kafka as a producer.
- Retrieved the streaming data from the producer in PySpark for the consumers and built a recommendation model upon this real time data.
- Creating a music player app and deploying the recommendation engine over it.
- Technologies Used: PySpark, Kafka, Pandas.

Customer Churn Prediction

- Developed a streamlit web app for customer churn prediction and deployed on Heroku.
- Analysed the IBM telco customer churn data and found various factors affecting customer retention.
- Implemented various machine learning ensemble methods (bagging, boosting, stacking).
- Successfully predicted 76% of the customers' likelihood of staying in a company and the estimated tenure with an R2 score of 0.996.
- Technologies Used: Scikit-learn, XGBoost, Pandas, Plotly, Streamlit.

Plant Disease Detection

- Implemented computer vision techniques to detect whether a plant has a disease from the leaf images.
- Used transfer learning (mobilenet_v2) classification model to detect disease in plants with an accuracy of 83%.
- Designing a mobile app for a quick check for disease in plants using TensorFlow Lite (*ongoing)*
- Technologies Used: TensorFlow Lite, OpenCV, Numpy

Book Sales Forecast

Kaggle Playground Prediction Competition ~ top 27%

- Did exploratory data analysis on Kaggle book sales time series data of 4 years from 2017 to 2020.
- Brought meaningful insights from the data and visualized the trend and seasonality in the data.
- Forecasted future sales of the books during the year 2021 using XGBoost Regression Model.
- Technologies Used: Pandas, Plotly, XGBoost.

PROGRAMMING SKILLS

Area of Interest: Machine Learning, Deep Learning, Recommendation Systems, Data Analysis, Natural Language Processing, Reinforcement Learning.

Language: Python, R, SQL, HTML, CSS, C/C++

Libraries/Frameworks: TensorFlow, Keras, Numpy, Pandas, Scikit Learn, Plotly, Tableau, OpenCV, Streamlit.

COURSES

Deep Learning Specialization (Coursera) — *July 2022*
Google Data Analytics (Coursera) — *Feb 2023*

POSITION OF RESPONSIBILITY

Mentor, Data Science — *Winspiration, CodeChef RGIPT Student Chapter*