RANJIT MANE

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CAREER OBJECTIVE

A recent graduate in Data Science, specializing in machine learning and data analysis. Deeply passionate about continuous learning and seeking an entry-level position to leverage strong analytical skills, programming proficiency, and data-driven mindset to contribute to the success of a dynamic and forward-thinking organization.

PROFILE SUMMARY

- Knowledge of statistical analysis, including Hypothesis Testing, Z-test, T-test, ANNOVA test & Chi-square test execution.
- Skilled in data preprocessing, employing techniques like Data Cleaning, Univariate Analysis, Bivariate Analysis, Imputation, Visualization, Feature Scaling, and Dimensionality Reduction using Python Data Science Packages (Scikit-Learn, Pandas, NumPy).
- Additionally, skilled in machine learning, deep learning, NLP (Natural Language Processing), and time series analysis.
- Well-versed in SQL for efficient data querying.
- Proficient in presenting insights through data visualization tools like Power BI Desktop and Tableau.

ACADEMIC PROFILE

- Post-Graduation in Data Analytics from Imarticus Learning, Pune in 2024
- B. Tech in Metallurgical Engineering from College of Engineering, Pune in 2016. – 7.13 GPA
- XII: Rajarshi Shahu Maharaj college, Latur in 2012 – 71.83%
- X: Shree Kedarnath Madhyamik Vidyalaya, Latur in 2010 – 93.45%

PROJECTS

Used Car Price Prediction

- **Objective:** Create an advanced predictive model for predicting used car prices, empowering buyers, and sellers with data-driven insights for making informed transactions.
- **Methods and Technologies:** Leveraged the powerful CatBoost algorithm. Implemented Boruta, a feature selection method, to identify and retain the most relevant features, optimizing the model's performance and interpretability & Employed Selenium for dynamic web scraping and used Tableau and Power BI for visualization.
- **Key Achievements:** Deployed functional model on cloud platform. Delivered exceptional predictive performance, achieving an impressive R-squared of 94.8% and an Adjusted R-squared of 94.8%, underscoring the model's robustness and accuracy in predicting used car prices.

Plant Disease Detection

- **Objective:** Develop an advanced plant disease detection system utilizing deep learning on leaf images, with the aim of providing a reliable and automated tool for early diagnosis, fostering sustainable agriculture practices.
- **Methods and Technologies:** Applied state-of-the-art deep learning techniques for image classification. Trained a Convolutional Neural Network (CNN) on a dataset of leaf images to distinguish between healthy and diseased plants. Implemented transfer learning using pre-trained models like VGG16, Xception and Resnet50 to enhance performance, especially in scenarios with limited labeled data.
- **Key Achievements**: Attained high accuracy in disease detection, ensuring reliable early diagnosis for timely intervention. Improved generalization capabilities through transfer learning, making the model adaptable to various plant species and diseases. Deployed functional model to detect the plant disease and utilized Gemini AI API for suggesting reasons and remedies for the disease.

Sentiment Analysis on Amazon food review

- **Objective:** Conduct sentiment analysis on over 500,000 textual Amazon food reviews to assess customer sentiment.
- **Methods and Technologies:** Leveraged Natural Language Processing (NLP) techniques and implemented the Naive-Bayes Algorithm to classify and score the sentiment of the reviews.
- **Key Achievements:** Achieved an impressive 85% accuracy in sentiment analysis, demonstrating proficiency in NLP and machine learning.

Restaurant Visitors Forecasting

- **Objective:** Develop a forecasting model for a restaurant to accurately predict visitor footfall to help in effective planning for purchase of ingredients and scheduling of staff.
- **Methods and Technologies:** Utilized Time Series analysis (SARIMAX), to account for time-dependent variations and exogenous factors in the restaurant industry.
- **Key Achievements:** Achieved an 88% accuracy rate in forecasting restaurant visitors, with a low 12% Mean Absolute Percentage Error (MAPE). Facilitated efficient ingredient purchasing and staff scheduling for the restaurant, improving operational effectiveness.

WORK EXPERIENCE:

Designation: **Assistant Manager**
Company: Viraj Profiles ltd. (Dec'16 – Apr'23)
Roles & Responsibilities:

- Fetch and process customer claim, production, inspection, and dispatch data from the database for monthly presentations.
- Analysis of Customer claim data and rejection data using tools like excel, Power BI, Tableau and Python
- Recognized with the "Employee of the Month" award in September 2022 and promoted to Assistant Manager through a Special Monetary Program in June 2022

CERTIFICATIONS:

- Post Graduation certification in Data Science and Data Analytics.

Technical Skills

- **Statistics:** Hypothesis testing, ANNOVA Test, Chi-square Test
- **Supervised Machine Learning:** Linear Regression, Ridge and Lasso, Logistic Regression, Decision Tree, Random Forest, SVM, KNN
- **Unsupervised Machine Learning**: KMeans Clustering, PCA
- **Natural Language Processing**: TDM, TF-IDF, nltk, Vader, Textblob, Spacy
- **Advance ML and Time Series**
- **Deep Learning:** MLP, CNN, RNN, LSTM, Bi-directional LSTM, Transfer Learning models
- **Market Basket Analysis**
- **Python:** Pandas, Numpy, Matplot, Seaborn, Scikit-learn
- **SQL**
- **Visualization Tools:** Power BI, Tableau

PERSONAL INFORMATION

Date of birth: : 13/05/1994
Languages known : English (R/W/S), Hindi (R/W/S), Marathi(R/W/S)
Hobbies : Drawing