RUSHIKESH YADAV

DATA SCIENTIST

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Portfolio Website

Pune, Maharashtra-411044

EDUCATION

Bachelor of Technology

SKN Sinhgad College of Engineering

2019 - 2022

79.48 %

Diploma

Shivaji Polytechnic, Atpadi

2016 - 2019

66.41 %

SSC

Dighanchi High-School, Dighanchi

2015 - 2016

76 %

TECHNICAL SKILLS

- Python
- MySQL
- Tableau
- Machine Learning
- Statistics
- Numpy
- Pandas
- Scikit-Learn
- Matplotlib
- OOPs
- DSA

SOFT SKILLS

- Communication Skills
- Teamwork
- Critical thinking
- Problem Solving
- Adaptability

PROFILE

- Aspiring Data Scientist passionate about turning data into actionable insights. Skilled in data preprocessing, statistical analysis, machine learning, and data visualization using tools like Python, Pandas, Scikit-learn, and Matplotlib. Eager to apply my knowledge to solve real-world problems, contribute to impactful projects, and continuously grow in the field of data science.

Project Works

Project 1: E-commerce Product Recommendation System

Tech Stack: Python, Pandas, Scikit-learn, Flask, HTML/CSS, Jupyter Notebook

Description:

Built an end-to-end recommendation system for an e-commerce platform using Flipkart product data. Implemented both content-based and collaborative filtering techniques and deployed a Flask web app for user interaction.

Key Contributions:

- **Data Preprocessing:** Cleaned, parsed, and structured product data from Flipkart for model training.
- **Content-Based Filtering:** Recommended products using product titles and descriptions via cosine similarity on TF-IDF vectors.
- **Collaborative Filtering:** Implemented user-based collaborative filtering using user-item interaction matrix and k-NN.
- **Flask Integration:** Developed a responsive Flask web app with a user-friendly interface to showcase real-time product recommendations.
- **Deployment Ready**: Modular code architecture for easy scaling and deployment on Render platforms.

Project 2: Flight Fare Prediction System

Tech Stack: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn

Description:

Developed a machine learning model to predict flight fares based on various features such as airline, source, destination, duration, and other parameters. Focused on feature engineering, model optimization, and performance evaluation using regression techniques.

Key Contributions:

- **Feature Engineering & Preprocessing:** Cleaned and transformed flight data by handling missing values, encoding categorical variables, and extracting features like travel duration and stop count.
- **Model Development & Optimization:** Trained regression models (Linear, Decision Tree, Random Forest) and improved performance using RandomizedSearchCV for hyperparameter tuning.
- **Performance:** Achieved 79% R^2 score initially; improved to 82% after tuning, with strong validation using MAE, MSE, and RMSE metrics.

Course Works

FULL STACK DATA SCIENCE

- Comprehensive training in Python, including data manipulation and scripting.
- Familiarity with data visualization tools like Tableau and Power BI to translate complex data into actionable insights.
- Practical experience with database management using Python and MySQL.
- In-depth exploration of Data Science techniques, including implementation of machine learning algorithms such as supervised and un-supervised using libraries like Pandas, Matplotlib, and Scikit-Learn

Google Advanced Data Analytics Professional Certificate

- Completed Google's Advanced Data Analytics Professional Certificate, mastering a 7-course series
- Applying over 200 hours to gain proficiency in Jupyter Notebook, Python, and Tableau
- Developing expertise in data analysis, statistical modeling, machine learning,