Shubham Rai

Highly motivated and results-driven professional with a years of experience as a Software Developer. Possessing strong analytical & problem-solving skills, I have demonstrated proficiency in Python, SQL, and Machine Learning. My extensive background includes academic roles & hands-on development experience. Eager to leverage my expertise in a challenging data science role, where I can continue making meaningful contributions to impactful projects.



Netflix Movies and TV Shows Clustering

AlmaBetter Verified Project 🌝

08/2023 - 09/2023

Tags: K-Means, Silhouette score, Hierarchical Clustering, Dendrogram, Agglomerative Clustering

- Engineered an Unsupervised ML model to perform clustering on a comparable dataset and applied data transformations, including one-hot coding and dummy variable conversion, while ensuring standardized data for optimal model fitting.
- Conducted hypothesis testing to explore correlations between content types & viewer engagement on the Netflix platform. Attained a silhouette coefficient of 3 through Silhouette Analysis & the Elbow Method, indicating cluster separation.
- Visualized clustering outcomes through a comprehensive Hierarchical Clustering Dendrogram. The primary goal was to refine content recommendations, ensuring a more tailored and engaging user experience on the Netflix platform.

Credit Card Default Prediction

AlmaBetter Verified Project 🗷

07/2023 - 08/2023

Tags: Supervised ML, Classification, Sampling Method, Feature Engineering, Decision Tree, XGBoost
Developed a Classification Model for predicting credit card payment defaults.

- Implemented comprehensive feature engineering steps, including Feature Selection, Standardization, Treating Multicollinearity, and One-Hot Encoding.
- Employed GridSearchCV for hyperparameter tuning, optimizing the model's predictive capabilities & comparative analysis revealed that XGBoost out performed the Decision Tree Classifier, achieving a remarkable Recall of 88%.
- Demonstrated expertise in Hyperparameter Tuning to fine-tune model parameters and enhance overall predictive accuracy.

TED Talk Views Prediction

AlmaBetter Verified Project 🕝

05/2023 - 06/2023

Tags: EDA, Supervised Learning, Regression Analysis, Handling Outliers, Ensemble Technique.

- Conducted data preprocessing, including meticulous cleaning and feature engineering and employed a variety of regression models, including Linear Reg, Regularization, Random Forest, to capture the complexity of viewership trends.
- Assessed model performance using a suite of metrics, including Mean Squared Error, Root Mean Squared Error, R Square, and Adjusted R Square.
- Utilized advanced Cross-validation techniques such as Grid Search CV and Random Search CV to fine-tune model hyperparameters, optimizing performance.
- Achieved remarkable results with Random Forest, attaining a minimum MSE and an impressive 86% R Square after careful tuning.



Expertise in Languages & Tools (x/5)

Python - 4.5 || SQL - 4.5 || Tableau - 4.0 || Excel - 4.0 || PowerBI - 4.2 || GitHub - 4.7 || Looker Studio - 3.5

Platforms

Jupyter Notebook, Google Colab, MS Office, GitHub, Kaggle, SQL Server, PostgreSQL, SQLite, Hacker Rank

ML Frameworks

Pandas, NumPy, Matplotlib, Sci-kit Learn, Spacy, Keras, Plotly, Seaborn, Streamlit

shubhamrai1318@gmail.com

+91-9918621318

linkedin.com/in/shubhamrai1318

github.com/shubhamrai1318



Dot Net Developer

Yoma Technologies Pvt. Ltd. C 02/2022 - 02/2023

Gurugram, Haryana

Skills: ASP.Net, SQL Server, MVC, Reposo , Team Work

- Developed and maintained software applications using the .NET framework.
- Collaborated with cross-functional teams to gather requirements and design scalable solutions.
- Conducted code reviews and implemented best practices to ensure code quality.
- Played a key role in the Research & Development team, specializing in Python ML projects.



Data Science Trainee

AlmaBetter 🕑

02/2023 - Present

Bengaluru , Karnataka Skills: Excel, Supervised ML, Unsupervised ML, SQL, Tableau, Power Bl, Good Communication skill, Team Work

- Explored and learnt technical skills such as Python, SQL, Exploratory Data Analysis & Visualizations. Acquired knowledge by building dashboards using Tableau and PowerBI.
- Secured the 4th rank in a cohort of 300 students, placing in the Top 5% and earned the opportunity to work as a Teaching Assistant (Data Science). 27



Master of Computer Application AKTU, Lucknow 🗷

10/2020 - 07/2022 CGPA || 8.7

Bachelor of Computer Application

MGKVP, Varanasi 🗷 08/2017 - 10/2020

Percentage || 66%



Gold Badge in Python and SQL C HackerRank

Teaching Assistant (Data Science) (10/2023 - Present) AlmaBetter