Fulkar Khan

Enthusiastic about building predictive modelling, skilled in both descriptive and prescriptive analysis using machine learning. With a data-driven mindset, able to analyze the large datasets to generate solutions. A number of core skills include machine learning, programming and creativity as well as providing actionable insights aligned with data science and modeling.

fulkarkhan9980@gmail.com | 8443405050 | linkedin.com/in/fulkarkhan123 | github.com/Fulkar-khan

WORK EXPERIENCE

Data Scientist Intern
AlmaBetter

08/2022 - Present, *Bengaluru*

Achievements-

- Achieved an in-depth understanding of technical skills such as Python, SQL, ML and Contributed to a doubt resolution forum as a **Subject Matter Expert**.
- Broadened knowledge of various tools and technologies like AWS, Google Colab, Jupyter Notebook, Tableau & various other ML libraries.

Admin Panel & DB Management Zixokart
12/2019 - 01/2022, *Meerut*

Tasks-

- Worked as a link between clients and developers to develop personalized online store as well as provided training to users for operating store effectively.
- Managed **e-commerce** databases using **SQL** like manipulate data in their database files, including creating, editing, and updating it when needed.

PROJECTS

Book Recommendation System AlmaBetter
Verified Project
11/2022 - 12/2022,

Tags- Collaborative and Content-based filtering, SVD, Vectorizer, Cold-start problem solution.

- Developed a book recommendation system for amazon customers using memory and model based collaborative filtering based on consumption and user interests. Deployed
- complete projects on Heroku as Webapp with help of Pycharm and Flask.
- Created profiles for top active users by leveraging interaction strength with the recommended items and achieved test Recall@5 of 23% and **Recall@10 of 30%.**
- Implemented the solution for the **cold start problem** based on global and demographic-specific book popularity and improved the efficiency of the user recommendation engine by **33%** .

Health Insurance Cross Sell Prediction (Classification) AlmaBetter
Verified Project
10/2022 - 11/2022,

Tags- Logistic Regression, Decision Tree Classifier, LGBM Classifier, Random Forest Classifier. Developed
- predictive model to predict whether the policyholders from the past year will additionally be intrigued with the Vehicle insurance provided by the company.
- Applied Scaling Technique and Adapted a binary classification model using algorithms such as **Logistic Regression**, LGBM Classifier, RF Classifier etc
- Performed feature encoding, implemented random over sampling to oversample the minority class

observations and carried out hyperparameter tuning using Keras, Skopt, Surprise, BeautifulSoup, AWS,ETL, Glu etc.

Machine Learning & Deep Learning

Linear Models, Classification Models, Decision Trees, Ensemble Models, SVM, KNN, Naive Bayes, Clustering Algorithms, NLP, Recommendation System.

Bayesian optimization and achieved a **Recall of 92%** for **LGBM Classifier**.

Appliance Energy Prediction (Regression) AlmaBetter
Verified Projects
09/2022 - 10/2022,

Tags- Linear Regression, Lasso, Ridge, Random Forest Regression, SHAP.

TECH STACK

Python, SQL, PostgreSQL, MySQL, Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn, NLTK, SHAP, Tensorflow,
Languages, Databases, Tools & ML Libraries

Professional Skills

Data Science, Data Analytics, ML Modelling, ML Deployment, DS Consulting, Business Analytics, Statistical Analysis, Data Mining, Predictive Modelling, Data Engineering, NLP, Tableau, Web Scraping.

RELEVANT COURSEWORK

Full Stack Data-Science (02/2022 - 09/2022)
AlmaBetter

ML & DS Bootcamp 2023 (10/2022 - 03/2023)
Udemy

PUBLICATIONS

Medium- Blog

Data Science for Healthcare *01/2023*

Medium- Blog

Uses of Data Science in Healthcare *10/2022*

ACHIEVEMENTS

TripleByte Certified Engineer (11/2022 - 03/2023)

Certified in Top 5 Machine Learning and Data Science Skills.

Gold and Silver Badges(Hackerrank) (02/2023)
Badges in Different DS skills like Problem Solving, Python, SQL.

EDUCATION

M.Sc. in Data Science

Symbiosis International University
2023 - Present,

B.Sc.
CCS University, Meerut
11/2013 - 11/2016,
First Class

INTERESTS

Reading | Watching Movies | Traveliing

- Completed prediction of energy consumption of home appliances and save energy for green economy.
- Utilized multiple regression models such as Linear Regression, Lasso, Ridge, Decision Tree Regressor, Boosting Regressor but **Random Forest Regression** has given **70% R2 score** on evaluation.
- Obtained SHAP plots to identify key factors that affect household energy consumption such as office hours, appliance type, past trend and external humidity.