AIYESHA SADAF

Software & Machine Learning

CONTACT

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PROFILE

A proactive and fast learning individual for a knack in Stats and Machine Learning. Enjoys problem solving and data visualization. Worked with Data and Platform Integration team at Adidas.

EDUCATION

2021

INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN [NEW DELHI, IN]

M.Tech – Artificial Intelligence *(CGPA – 7.8)*

2018

JAMIA HAMDARD [NEW DELHI, IN]

Bachelor of Computer Science & Technology *(CGPA – 8.8)*

CERTIFICATES

- Data Science for Engineers-NPTEL
- Core Java – ACE, Delhi.

TECHNICAL SKILLS

- **Machine Learning**
- **Deep learning**
- **Data Structure & Algorithm design**
- **Exploratory Data Analysis**
- **Data Visualization (Matplotlib, seaborn, plotly, ggplot2), Data management**
- **Natural Language Processing (NLTK, SciPy, NER, Tokenization)**
- **Statistics and Probability**
- **Python (NumPy, pandas, scikit-learn, Keras, Tensorflow)**
- **R, SQL, C/ C++, JAVA, Spring boot.**
- **Kafka, ELK, Docker, Maven, ETL.**
- **Jupyter, SPSS, IntelliJ, Offset Explorer, Matlab, Tableau(learning).**

MANAGEMENT SKILLS

- **Project & Team Management**
- **Problem Solving & decision-making**
- **Leadership & communication**
- **Git, Excel, PowerPoint**
- **Agile in Data Science**

PROFESSIONAL EXPERIENCE

JULY 2021 – DEC 2021

Software Developer, Data and Platform Integration Team | ADIDAS, India

- Worked as a backend engineer in platform middleware with primary focus on data integration to enable various business module and provide them required data with the help of techniques such as Kafka, ELK, Docker, Kubernetes, Springboot.
- Developed Rest API endpoint/application with docker image, which is used for testing of http sink connector, and it can also return a message in local machine.
- Execute Kafka Connect platform via Docker-Compose in local machine by using Http Sink connector to see end to end flow for a java application and Kafka Topic using postman. Also, try to explore spring security for securing rest API.
- Design an application for Employee Management System using Java and SQL which includes CRUD operation and GUI using swing.
- Demonstrated aptitude as a team player and as an Individual contributor by successfully delivering tasks in a fast-paced agile environment and Scrum framework with strict deadlines.

ACADEMIC PROJECTS

Classification of Drugs based on their biological activity

- Developed a classification model by using a deep learning technique - Tab net in python to predict the biological activity for target drugs and tuned model to increase its inference speed and reduce the validation loss.
- Performed exploratory data analysis and pre-processed it using techniques such as matplotlib, seaborn, plotly. Analyze the correlation between different gene expression and cell viability for 100 cell lines while treated with various sample of drugs for different time duration.
- Implemented techniques like RIDGE, LightGbm, 1DCNN, DNN to observe their performance by using Log loss for multi-label classification.

Rumor Detection on social media

- Pre-processed, 2000 covid19-tweets from twitter in python, using twitter streaming API, libraries such as tweepy and performed text-mining using Lemmatization, Tokenization, TF-IDF transformer techniques by using NLTK toolkit.
- Identified interesting patterns for rumored data after extensive exploratory analysis for different features such as text, URL, retweet count, follower count etc. and achieve an accuracy of 81% by implementing a LSTM model
- The model analyzed the behavior and can predict them as rumored or not rumor to improve debunking of rumors at an early stage.

Customer Market Segmentation

- Developed customer market segmentation model using Unsupervised Machine learning technique (k-means, PCA) in Python to Predict customer behavior.
- Perform Data Cleaning, EDA, feature Engineering to explore relation between different features and split the data into train-test.
- The model streamlined customer purchases and improved product recommendation by analyzing features such as transaction behavior, credits scores etc. and classify them accordingly.