ADIL AHMED

DATA SCIENTIST

ABOUT ME

I am a motivated and experienced full-stack developer and machine learning professional with a focus on deep learning techniques. I excel at developing end-to-end ML systems and web applications using Django, Flask, and React. I also have a strong background in relational database design and data visualization.

I am seeking opportunities to use data to drive efficiency, increase value, and simplify processes

EDUCATION

M.S in Computer Engineering

New York University

2020-2022 | GPA 3.7 / 4.0

Courses: *Intro to Machine Learning, Deep Learning, Computer Vision, Machine Learning for Cyber Security, Data Structures and Algorithms*

B.S in Engineering Science

Trinity University

2015-2019

Minor in Mathematics

TECHNICAL SKILLS

Languages: Python, JavaScript, Swift, R, SQL, HTML, CSS

Technologies: PyTorch, TensorFlow, Azure ML, Azure Databricks, SQL Server Management Studio , AWS, InVision, XCode, MATLAB, Django, Flask, React, Microsoft Power BI, Tableau, Heroku

CONTACT

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WORK EXPERIENCE

Data Scientist

Visionet Systems, NY USA — Jan 2022 - Jan 2023

- Engineered Named Entity Recognition (NER) and Relation Extraction (RE) models utilizing ***BioBERT*** and ***PyTorch*** on a ***CUDA framework***, achieving a maximum aggregated F1 score of 0.91 for entity and relation extraction from unstructured data for a pharmaceutical and biotech giant
- Built and evaluated a revenue forecasting model pipeline for a luxury beauty brand, reducing inventory costs by 20% and obtaining an aggregated MAPE of 18% using ***Azure Databricks*** and a ***MySQL*** database
- Implemented a deep neural network for customer churn prediction and future purchasing activity for a leading fashion company using ***Tensorflow***, achieving an F1 score of 0.78. Deployed the model as an end-to-end ML pipeline on ***Microsoft Azure ML***
- Created and updated live dashboards to monitor the performance of multiple ML solutions for multiple clients using ***Microsoft Power BI***

Data Engineer

Imamia Medics International, NJ USA — Aug 2019 - July 2020

- Designed and executed scripts utilizing ***Microsoft Azure SQL DB*** for migrating business-critical Excel files, CSV datasets, and unstructured data to the cloud, facilitating centralized data storage and enhanced inter-departmental data communication
- Streamlined member databases through data cleaning, attribute redefinition, and optimized querying, resulting in a 45% quarterly increase in fundraising through improved routine data analysis

PROJECTS

Drum Sound Classification

Deep Learning Final Project | New York University — Spring 2021

- Acquired 7 categories of drum sounds and transformed audio signals into spectrograms through feature engineering for CNN-based classification, achieving a validation accuracy of 82% using ***PyTorch***

X-Ray Classification for COVID-19 diagnosis

Computer Vision Final Project | New York University — Spring 2021

- Consolidated publicly available X-ray datasets for COVID-19, healthy, and pneumonia cases and implemented a CNN for categorical classification using ***Tensorflow***, achieving a validation accuracy of 92.6%

Euro 2020 Prediction Game

Personal Project — Summer 2021

- Designed and deployed a ***Django***-based interactive web application on ***Heroku***, backed by a ***PostgreSQL*** database hosted on ***AWS***, enabling 50 users to compete in a daily 30-day soccer match outcome prediction league

COVID-19 Tracker

Personal Project — Summer 2020

- Developed a ***Flask***-based web application utilizing John Hopkins COVID-19 data hosted on GitHub, providing real-time tracking and visualization of the global spread of the disease through the use of maps, scatter plots, and pie charts