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Md Mustain Billah

GitHub
LinkedIn

Technical Aptitudes

Programming	Python and SQL
Tools	MLOps, Git, GitHub, Tableau, MongoDB.
Packages and Libraries	Scikit-Learn, NumPy, Scipy, Pandas, Matplotlib, Seaborn, TensorFlow, Keras, spaCy, ChatterBot, NLTK, openAI gym, Flask, Selenium, Plotly, Streamlit, PyMongo etc.
Methods and Algorithms	Machine Learning, Deep Learning, NLP, Reinforcement Learning, Linear Regression, Logistic Regression, Decision Tree, SVM, Naive Bayes, kNN, K-Means, Random Forest, ANN, CNN, etc.

Education

Masters in Applied Statistics and Data Science Dec 2022-Ongoing
Jahangirnagar University, Savar, Dhaka
CGPA 3.82 out of 4
Relevant Coursework: Introduction to Data Science with Python, Statistical Methods, Machine Learning, Time Series, Statistical Inference, Data Mining, Big Data, etc.

Bachelor of Computer Science and Engineering (B.Sc. in CSE) Jan 2018 – Apr 2022
International University of Business Agriculture and Technology (IUBAT), Dhaka, Bangladesh.
CGPA 3.58 out of 4
Relevant Coursework: Data Structure and Algorithms, Database Management System, Linear Algebra, Calculus, etc.

Experience

Monico Technologies Ltd. - Data Analyst Aug 2023 – Ongoing
- Utilized MongoDB and PyMongo for data extraction, preprocessing, and analysis, resulting in a comprehensive "Finder" app dashboard with enhanced data visualization for informed decision-making.
- Applied advanced machine learning techniques to autonomously classify fuel loading and unloading events, streamlining the identification of user-initiated fuel operations and fortifying the company's ability to proactively manage fuel-related processes.
- Spearheaded data optimization efforts resulting in an impressive 84.7% reduction in data size by proficiently identifying and eliminating duplicates in OBD CAN data, leading to substantial memory savings and bolstering operational efficiency.

Titan Technologies Ltd. - AI-ML Engineer Intern Feb 2022 – May 2022
- Co-created "Titan-Assist," an HR automation AI ChatBot with product managers and developers, reducing HR time by 50% and contributing to company growth.
- Applied statistical analysis, NLP, and machine learning to large datasets for feature engineering, selection, modeling, and prediction.
- Collaborated with senior developers on research projects, leveraging advanced technologies such as TensorFlow, Keras, and Reinforcement Learning.

Project Experience

Accelerated EDA Sales Analytics Dashboard: Unveiling Market Dynamics
- Engineered an immersive sales analysis dashboard using Python, Streamlit, and Plotly, enabling dynamic exploration of regional, state, and city-specific sales data, bolstering rapid decision-making through comprehensive EDA.
- Developed dynamic visualizations encompassing interactive bar graphs, tree maps, pie charts, and time series analyses, extracting actionable insights to drive informed strategies and optimize revenue in a competitive market landscape.

Delivery Duration Prediction using various kinds of ML and DL approaches
- Conducted feature selection using multicollinearity analysis, resulting in a 50% reduction in errors in delivery duration predictions for a logistics client.
- Trained and evaluated multiple machine learning algorithms, including random forest and gradient boosting, and compared their performance to a deep learning algorithm for predicting delivery duration, ultimately identifying the best-performing model.

Activities

- Served as an IT Mentor and Academic Mentor at the Department of Computer Science and Engineering at IUBAT from November 2019 to April 2022.
- Invited to speak at my university on a variety of machine learning algorithms, showcasing my passion for the field and ability to communicate complex technical concepts to diverse audiences of students and faculty.