MD. Reyad Hossain

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Artificial Intelligence Engineer

I am a highly motivated and experienced Artificial Intelligence Engineer with a passion for developing innovative solutions to complex problems. I have a strong background in **machine learning, natural language processing, deep learning, computer vision** and **genarative ai** and I am proficient of **Python programming languages**. I have gained expertise in building web applications, data analysis tools,API integrations and machine learning model deployment. My experience with frameworks such as **Django** and **Fastapi** has enabled me to create scalable and maintainable web solutions that align with modern development practices. I am also an active member of the research community and have been trying to publish papers in top AI conferences and journals.

Skills And Competencies

Languages	:	Python	**Libraries**	: SciKit-Learn, pandas, numpy, NLTK, SpaCy, OpenCV,Matplotlib, Seaborn, Beautiful Soup, Selenium
Frameworks	:	TensorFlow, PyTorch, Keras, LangChain		
Platforms	:	GenAI, OpenAI, Hugging Face	**Deployment**	: Docker, MLflow, FastAPI,
Deep Learning	:	Neural Networks,CNNs, RNNs, LSTM, Transformers	**Version Control**	: Git, GitHub, Jenkins, GitLab CI/CD

Experience

Software Engineer — May 2022 – Present
Suffix IT Limited — *Full Time – Badda, Dhaka, Bangladesh*

- Developed and implemented an object detection system for decision making, leveraging computer vision and machine learning techniques. The project aimed to analyse real-time streaming video feeds and detect specific objects of interest, enabling automated decision-making processes.The using model is Yolo v4.
- Built a product recommendation system for an e-commerce website using machine learning algorithms. The system recommended products to users based on their given specific types of product picture.The using model is ResNet50.
- Designed and implemented an outlier detection system for sensor data analysis. The project aimed to identify anomalous readings or patterns in sensor data enabling timely detection of potential faults, anomalies, or abnormal behaviour.
- Developed a web scraping application to automate data extraction from websites. The project aimed to gather structured data from target websites efficiently and reliably.Using scripting tools are Beautiful Soup and Selenium.
- developing a custom optical character recognition program that can extract characters from documents and aid in the storage of particular data.Using OpenCV for image processing and pytesseract tolls used for OCR.
- Using Django creating a web application for testing a real-time Object detection from streaming data and detecting decision data store in MySQL database.
- Using FastApi to creating a web application for data visualization and predict outliers- data

Education

NORTH SOUTH UNIVERSITY — Bashundhara, Dhaka-1229, Bangladesh
BSc in Computer Science and Engineering — *May 2017 - December 2021*
Specialized Trail: Artificial Intelligence
CGPA: 3.56 out of 4.00 (88-90% marks)
Distinction: cum laude

Bogura Cantonment Public School and College — Bogura, Dhaka, Bangladesh
Higher Secondary School Certificate — *May 2013 - August 2015*
Group: Science

Sara Marwari Model School and College Ishwardi, Dhaka, Bangladesh
Secondary School Certificate *January 2008 - December 2012*
Group: Science

Projects

Stock price prediction using machine learning: a case study on dhaka stock exchange
Senior Design Project

In this project, I developed a stock price prediction system using machine learning techniques that relied on the historical closing prices from the last 7 days. The goal was to create a model capable of forecasting future stock prices based on recent closing price trends, providing investors with valuable insights for short-term trading decisions.The best performing models are Random Forest Regression and LSTM.

Assist senior citizens and disabled people by detecting hand gesture recognition
Junior Design Project

It is a Python-based system that will detect hand gestures of disabled or senior citizens in need and send responses to get assistance in an emergency.

Patient's condition classification using drug reviews
Practice project

In this project, I focused on developing a machine learning-based system for classifying patients' medical conditions using UCI drug reviews Dataset. The primary objective was to leverage natural language processing (NLP) techniques to analyse textual data from drug reviews and accurately categorize patients' conditions

References

Academic and Professional references available upon request