# Md Sojib

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## Technical Skills

**Programming Languages:** C, OOP Python
**Database Management:** MySQL
**Core Skills:** Machine Learning, Deep Learning, Natural Language Processing
**Frameworks and Libraries:** Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, Tensorflow, Keras
**Backend Familiarity:** Django, Flask, Streamlit
**MLOps Familiarity:** GitHub, DVC, Mlflow, Docker, GitHub Action CI/CD

## Projects

**Image Text Harvest** | *Python, Generative AI, MySQL, Streamlit*                   GitHub Repository
- Developed an system extracting essential information from images.
- Utilized Generative AI techniques for seamless insertion into the MySql database.

**Vehicle Type Detection** | *Python, Deep Learning, Keras, Flask, GitHub, Docker, DVC*      GitHub Repository
- Engineered a web-based system for classifying vehicle types using deep learning with Keras.
- Utilized Docker for efficient deployment and DVC for pipeline management.

**Tea Disease Detection** | *Python, Deep Learning, Keras, Flask, GitHub, Docker, DVC*      GitHub Repository
- Implemented an end-to-end system for detecting diseases in tea leaves.
- Utilized Flask for web interface, GitHub CI/CD for deployment

**Concrete Strength Prediction** | *Python, ML, Scikit-learn, Flask, GitHub, Docker, DVC*      GitHub Repository
- Developed an end-to-end system predicting concrete strength based on diverse factors.
- Evaluated and selected optimal regression models through comprehensive comparison.

**Water Quality Prediction** | *Python, ML, Scikit-learn, Flask, GitHub*                GitHub Repository
- Engineered a web-based solution for assessing water quality using various classification models.
- Conducted in-depth model comparisons to determine the most effective classifier.

**Student Performance Predictor** | *Python, ML, Scikit-learn, Flask, GitHub*           GitHub Repository
- Designed an end-to-end system forecasting student math scores based on diverse factors.
- Conducted a thorough evaluation of regression models to identify the top-performing predictor.

**Video Summarizer** | *Python, DL, OpenCV, Tkinter, GitHub*                           GitHub Repository
- Engineered a GUI application for summarizing CCTV footage using deep learning techniques.
- Implemented object detection algorithms to enhance the efficiency of video summarization.

**Jersey Fidelity** | *HTML, Bootstrap, MySQL, Django, GitHub*                         GitHub Repository
- Established an e-commerce platform for jersey purchases, featuring a virtual try-on function via APIs.
- Integrated interactive features to elevate the overall user experience on the platform.

## Education

**University of Asia Pacific**                                                       Expected June 2024
*Bachelor of Science in Computer Science*                                              *Farmgate, Dhaka*
- **Relevant Coursework:** Probability and Statistics, Math II: Linear Algebra, Object Oriented Programming II (Python), Database Systems (MySQL), Software Engineering (SDLC), Software Development (Django),Mathematics for computer Science, Topics of Current Interest(Machine Learning), Artificial Intelligence and Expert Systems

## Certificates

**What is Data Science?** | *IBM, Issued: Jul-2023, Credential ID: HXKYEBDXENMZ*
**Tools for Data Science** | *IBM, Issued: Jul-2023, Credential ID: EWV742G7YGWD*
**Python for AI, Data Science and Development** | *IBM, Issued: Aug-2023, Credential ID: DX5UDYZZ6H62*
**Python Project for Data Science** | *IBM, Issued: Aug-2023, Credential ID: DX5UDYZZ6H62*
**Data Analysis with Python** | *IBM, Issued: Aug-2023, Credential ID: WC6YURTFJ764*
**Machine Learning with Python** | *IBM, Issued: Sept-2023, Credential ID: 3YWAXWSPENKB*
**Data Visualization with Python** | *IBM, Issued: Sept-2023, Credential ID: UA75T6QZ9NM6*