Md Abu Sayem

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Professional Experience

Associate Python Developer, *Eappair Ltd*

04/2024 – present | Dhaka, Bangladesh

- Collaborated in **100+** micro services.
- Developed and maintained web applications for various **FMCG** (Fast-Moving Consumer Goods) projects using **Web2Py** and **Py4Web** frameworks
- Created **RESTful APIs** for an FMCG **mobile application**
- Developed a CSV report generation system that efficiently handles large datasets through **chunk processing** and **SQL optimization**, enhancing performance and efficiency

Projects

Extract Key Information from Scanned Handwritten Documents using Machine Learning

- Built a Handwritten Text Recognition (**HTR**) model using a dataset consisting of 150,000 images
- Extracted text from handwritten images
- Extracted key information (Name, Roll, Session, Contact info, etc.) using Regex
- Technologies used: **Python, Pandas, NumPy, Scikit-learn, Tkinter, Keras, TensorFlow, OpenCV**

Food Delivery API for Restaurant, *(Ongoing)*

- This project involves developing a **Restfull API** for a food delivery company
- The API manages user registration and login, menu management, and order placement, incorporating **role-based permissions** for users.
- Create an **interactive dashboard** to track order status, customer orders analysis, financial reports, customer reviews, etc.
- Technologies used: **Python** , **Django** , **Django Rest Framework**

Education

BSc. in Computer Science & Engineering,

Jatiya Kabi Kazi Nazrul Islam University

01/2019 – 01/2024 | Trisal,Mymensingh, Bangladesh

Skills

Programming Language: C, C++, Java, Python

Web Technology: HTML5, CSS3, JS, PHP, web2py, py4web

Database: MySQL, MongoDB

Version Control: Git

Programming Paradigm: OOP

Applied ML: Machine Learning applications including prediction, machine translation, computer vision, and natural language/speech processing

ML Libraries: TensorFlow, Keras, Scikit-Learn, OpenCV, Pandas, NumPy, SciPy,Matplotlib, Plotly, Seaborn

Awards

Steel Plate Defect Prediction,

Kaggle: Playground Series - Season 4, Episode 3

Rank: 10/2199

Multi-Class Prediction of Obesity Risk,

Kaggle: Playground Series - Season 4, Episode 2

Rank: 1610/3587

Courses

Applied Data Science Lab, *WorldQuant University*

From this learning process, I have completed **eight projects**. Each project consists of four self-paced lessons, followed by an assignment. I learned various **machine learning algorithms (Linear Regression, Logistic Regression, KNN, K-means, Random Forest, Decision Tree, ARMA), various statistical techniques (Hythothesis Tesing, Regression, etc.),** and big data analysis techniques (**t-SNE, PCA**)**.** I built custom Python classes to implement an **ETL** process and created an interactive data application following a **three-tiered design pattern**. From this training, I gained skills in **API design, data science, data visualization** (Plotly, Matplotlib, Seaborn), **Machine Learning, MongoDB, SQL, SQLite, and statistics.**

IBM Machine Learning with Python, *Coursera*