

Faiyad Ahmed Masnoon

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Education

University of Toronto

Expected graduation - 2028

Honours Bachelor of Science (Computer Science Specialist, Focus in Artificial Intelligence, Mathematics minor)

- **Dean's List Scholar**
- **Related Coursework:** Data Structures, Algorithms, Recursion, Logic & Proofs, Object-Oriented Programming, Runtime Analysis, Calculus with proofs, Linear Algebra I and Linear Algebra II.

Experience

Junior Software Developer

Dhaka, Bangladesh

Navigator Technologies

June 2024 – Sep 2024

- Developed an OCR system for extracting text from various identification documents and integrating it into a database, ensuring accurate and seamless recording of customer identities (used OpenCV and Tesseract).
- Designed and deployed an automated invoicing solution that accelerated the checkout process and significantly improved customer satisfaction metrics.

Projects

CardiacScan

[Github](#) [Try Now!](#)

- Developed a full-stack web application that integrates a machine learning model to predict the likelihood of heart disease based on user input.
- Achieved an accuracy of 88% and a precision of 87% (see additional metrics on [GitHub](#)).
- Tools & Technologies: Scikit-learn, Pandas, NumPy, Flask, JavaScript, Python.

Nutrient Gap Predictor

[Github](#)

- Predicted nutrient gaps in African maize crops using a Random Forest-based multi-output regression model for the Amini Soil Prediction Challenge.
- Engineered features from soil and climate ratios (e.g., pH, bio1, bio12, bulk density) to improve model performance.
- Outperformed benchmark with a score of 1057.36 RMSE; ranked in the top 150 out of 980+ global participants.
- Tools & Technologies: Scikit-learn, Pandas, NumPy, Python.

Technologies

Languages: Python, JavaScript, HTML, CSS, Java

Frameworks/Libraries: Scikit-learn, OpenCV, Tesseract, Pandas, Seaborn, Flask, Matplotlib, Numpy, Tkinter

Tools: VS Code, Git, Github, Jupyter Notebook