

# Raihan Rashid

Dhaka, Bangladesh

rashidraihan021@gmail.com | LinkedIn | GitHub | rashidraihan.github.io

## EDUCATION

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### B.Sc. in Computer Science & Engineering

North South University

*Major: Artificial Intelligence | Minor: Theory of Computation*

July 2025

Dhaka, Bangladesh

- Coursework: Data Structures & Algorithms, Software Engineering, Machine Learning, OS, Embedded Systems

## RESEARCH EXPERIENCE

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### Enhancing Android Malware Detection using Artificial Intelligence.

North South University

April 2024 – April 2025

Dhaka, Bangladesh

- First-authored paper on ensemble ML detection system presented at IEMTRONICS 2025 (Springer Nature)
- Implemented ensemble models achieving 92% accuracy in malware classification

### Stroke Risk Prediction Using Machine and Deep Learning

North South University

October 2024 – Present

Dhaka, Bangladesh

- Developed interpretable ML/DL models using XAI (SHAP) for stroke risk prediction and clinical validation
- Engineered data preprocessing pipeline for 5,000+ patient records; contributed to publication

## PROJECTS

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### DeepSurf: AI-powered Android Malware Detection

- Built ensemble ML models using Scikit-learn on a dataset of 300,000 records; applied SMOTE and Optuna
- Deployed with FastAPI backend and Streamlit frontend

### Turtle Shell – Custom Command-Line Interface

- Developed core UNIX system calls (fork, execvp, pipe, file I/O) in Python
- Implemented directory navigation, file management, command history, and text editing

## SKILLS

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**Programming Languages:** Python, C, C++, Java, JavaScript

**ML & AI:** Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy

**Web Development:** HTML, CSS, React.js, FastAPI, Streamlit

**Database & Tools:** MySQL, Git/GitHub, Jupyter Notebook, VSCode

**Operating Systems:** Linux, Windows, macOS