# Ashraful Islam Tanzil

AI & Data Science | Software Engineering
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## PROFILE

I am a Computer Science and Engineering graduate from United International University specializing in Artificial Intelligence and Data Science. My work bridges deep learning research and practical software engineering—ranging from cross-cohort spatial proteomics and medical imaging pipelines to resilient, offline-first safety applications and full-stack web platforms.

## EDUCATION

**Bachelor of Science in Computer Science and Engineering - United International University**
AI & Data Science track · CGPA 3.60 / 4.00 | Dhaka, Bangladesh

**HSC, 2020 - Higher Secondary Certificate**
GPA 5.00 / 5.00 | Academic credential

**SSC, 2018 - Secondary School Certificate**
GPA 5.00 / 5.00 | Academic credential

## SELECTED WORK

**GreenPEFT** - Green AI decision-support framework for resource-aware PEFT comparison; live app and released package/ artifacts.

**COHERE** - Team spatial-proteomics research; my contributions: cohort standardization, representation engineering, leakage controls, and diagrams.

**SPRINT** - Spatial communication inference and reproducible spatial feature verification pipelines.

**ChestX-ray14 Distillation** - Multi-label thoracic pathology classification and knowledge-distillation evaluation.

**Nirapod** - HCI survey portal and emergency-safety interaction prototype.

## SKILLS

**Languages:** Python, JavaScript, C, C++, Java, PHP, HTML5, CSS3, SQL

**AI, ML & Bioinformatics:** PyTorch, Convolutional Neural Networks, Vision Transformers, BioViL-T, DenseNet-121, Knowledge Distillation, Spatial Proteomics & Transcriptomics, Hugging Face Transformers, PEFT

**Web, Mobile & Databases:** React, Node.js, Express, Laravel, Flutter, REST APIs, MySQL, Firebase, SQLite, Redis

**Tools & Environments:** Git, GitHub, UML System Design, Kaggle, Google Colab, VS Code, npm, LaTeX / TikZ