Sakil Sarker

Applied Machine Learning Researcher

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 GitHub   in LinkedIn   </> LeetCode

Teaching Experience

Ontario Tech University   Fall 2024 – Present
Teaching Assistant

- **Introduction to Programming**: Provided personalized support to students with diverse programming backgrounds, helping them build confidence and competence in Python/Java/C++.
- **Artificial Intelligence**: Conducted tutorials, explained AI concepts and guided students in applying core methods and tools.
- **Big Data Analytics**: Delivered lab sessions and mini-lectures on big data frameworks, tools, and real-world applications.
- **Systems Programming**: Supported students in advanced programming tasks involving low-level systems and concurrency.
- **Data Mining**: Led lab sessions, answered technical queries, and mentored students in using data mining algorithms.

East West University   2018 – 2021
Undergraduate Teaching Assistant

- **CSE103 Structured Programming** (*multiple terms*): Helped students master programming fundamentals through debugging, one-on-one help, and lab instruction. Focused on problem-solving and code quality.
- **CSE101 Computer Fundamentals**: Guided students on introductory computing, from hardware components to OS basics.
- **CSE498 Social and Professional Issues in Computing**: Supported ethics discussions and helped students critically evaluate the societal impact of computing.
- **CSE350 Data Communications**: Assisted students in understanding core networking principles, protocols, and data transmission.
- **CSE207 Data Structure**: Explained key data structures with practical examples and helped students debug and optimize implementations.
- **CSE325 Operating Systems**: Provided support for understanding process management, memory handling, and synchronization.

Education

Ontario Tech University   Sep 2024 – Present
MSc in Computer Science (AI Specialization)   GPA: 4.3/4.3

- Research focus: Applied LLMs, generative AI, and human-AI collaboration.
- Thesis: AI-powered platform for collaborative academic reading and learning support.

East West University   Apr 2017 – Jun 2021
BSc in Computer Science and Engineering   GPA: 3.56/4.0

- Dean's Scholarship recipient (2019–2021), graduated top 5% of class.

Technical Skills

Languages:	Python, C/C++, JavaScript, SQL, ABAP
ML Frameworks:	PyTorch, TensorFlow, Hugging Face, OpenAI API
Systems/Tools:	Docker, Git, AWS, Firebase, SLURM, LaTeX
Core Strengths:	Data Engineering, LLM Fine-Tuning, GenAI Applications, Software Prototyping

Certifications
Awards

- AWS Certified Cloud Practitioner (2023)
- SAP Certified Associate – ABAP (NetWeaver 7.50) (2022)
- TCPS-2 CORE Ethics Certification (Canada) (2024)
- Dean's Scholarship, East West University (2019–2021)
- Top 2 in SAP ABAP/Fiori Training, BJIT (2021)