

Bishal Mondal

98574 Schmalkalden, Germany

Email: bishal.mondal.official@gmail.com

Phone: +49 15225759459 | Portfolio: bishalmondal.online

LinkedIn: linkedin.com/in/bishal-mondal2026

Professional Profile

Master's student in Applied Computer Science with a focus on Data Science and Web Development. Seeking a Working Student (Werkstudent) position to apply technical skills in AI engineering, software engineering or data analysis.

Education

MSc in Applied Computer Science | 2025 – 2027 (Expected)

Hochschule Schmalkalden, Schmalkalden, Germany

MSc in Computer Science and Engineering (Data Science) | 2023 – 2025

East West University, Dhaka, Bangladesh

Grade: 2.6 (German Equivalent)

Thesis: Improving Bangla-English NMT through Fine-Tuning NLLB-200 with a Curated Parallel Corpus.

- Engineered a custom Python and ParseHub pipeline to scrape, clean, and refine a noisy corpus of ~210,000 into a curated, high-quality dataset of 141,076 semantically aligned pairs.
- Fine-tuned the NLLB-200-distilled-600M model to optimize translation accuracy using PyTorch, Hugging Face, PEFT (LoRA), and bf16 mixed-precision training on an A100 GPU.
- Improved baseline BLEU scores by +8.5 points and achieved a state-of-the-art SacreBLEU score of 56.13 with a 0.9012 BERTScore.

BSc in Computer Science and Engineering | 2017 – 2022

National University of Bangladesh, Bangladesh

Grade: 2.4 (German Equivalent)

Final Project: Automated Solar Powered Watering System.

Technical Skills

Programming: Python, PHP, C++

Web Development: HTML, CSS, Bootstrap, JavaScript, TypeScript, Node.js, React, MySQL

Data Science: Machine Learning, Deep Learning, Image Processing, NLP, Generative AI

Tools & Design: Git, Google Colab, Jupyter, MS Office, Adobe Photoshop, Illustrator, Blender

Work Experience

Freelance Tutor | 2020 – 2024

Independent, Dhaka, Bangladesh

- Instructed students (Grades 6-12) in Mathematics and Science.
- Simplified complex technical and mathematical concepts for diverse learning levels.

Selected Projects

Shophentic (2025) (shophentic.bishalmondal.online)

Developed a web platform for authentic product reviews and secure e-commerce transactions.

SmartShopBD (2024) (smartshopbd.bishalmondal.online)

Engineered an interactive e-commerce platform focusing on user experience.

Movie Recommendation System (2024)

Built a recommendation engine using Alternating Least Squares (ALS) and Collaborative Filtering.

Image Duplication Detection (2024)

Applied Transfer Learning and PCA to identify near-identical images in datasets.

Certifications & Languages

Languages: English (Fluent), German (Learning-A2), Bangla (Native), Hindi (Conversational).

Certifications: Deep Learning with PyTorch, Keras & Tensorflow (IBM); Generative AI for Data Scientists (IBM); Python for Everybody (University of Michigan); Web Development (Creative IT Institute BD).