

HASEEB RAZA

haseeb.javed715@gmail.com | +36 70 586 6179 | linkedin.com/in/haseebraza715 | haseebraza.netlify.app

EDUCATION

BSc in Computer Science <i>Eötvös Loránd University (ELTE)</i>	February 2023 – July 2026 (Expected) <i>Budapest, Hungary</i>
<ul style="list-style-type: none">GPA: 4.3/5.0 Relevant Coursework: Artificial Intelligence, Machine Learning, Data Science, Algorithms and Data Structures, Computer Architecture and Operating Systems, Programming Languages, Software Engineering, Database Systems	

EXPERIENCE

Research Assistant – Agentic AI for Science <i>Agentic Systems Lab, ETH Zurich</i>	December 2025 – Present <i>Zurich, Switzerland</i>
<ul style="list-style-type: none">Investigating LLM-based agentic systems as co-reviewers in scientific peer review to address scalability, consistency, and accessibility challenges in global scholarly evaluation, contributing to human–AI collaboration research.Designing multi-agent review architectures with explainable reasoning chains to assess manuscript methodology, clarity, and reproducibility across disciplines, ensuring transparency, auditability, and alignment with scientific norms.Conducting benchmark experiments comparing AI reviewer performance to human expert evaluations, quantifying reliability, bias patterns, and establishing validity thresholds for responsible AI integration.	
Research Assistant – AI and Computational Linguistics <i>ELTE Faculty of Informatics, AI Department (Prof. László Gulyás)</i>	Jul 2025 – Present <i>Budapest, Hungary</i>
<ul style="list-style-type: none">Investigating novel swarm intelligence approaches for document categorization in latent space, comparing ACOM with traditional dimensionality reduction methods (PCA, t-SNE) to study spatial clustering in NLP.Examining the effectiveness of LLM-based embeddings with BERTopic modeling for semantic document organization, establishing empirical benchmarks between discrete partitioning and continuous clustering approaches.Developing experimental pipeline for cross-algorithm validation of document placement strategies, contributing methodological frameworks for evaluating swarm-based dimensionality reduction in high-dimensional semantic spaces.	
Research Assistant – Computational Social Science <i>RC2S2 (Research Center for Computational Social Science), ELTE</i>	Sep 2025 – Present <i>Budapest, Hungary</i>
<ul style="list-style-type: none">Examining socio-contextual bias in LLM responses through controlled experiments using agent profiles with varying antisemitic attitudes, analyzing how user background influences AI-generated content in sensitive domains.Constructing experimental agents from validated 2021 antisemitism survey data with Likert-scaled attitude profiles, establishing rigorous methods to quantify bias propagation across socio-demographic dimensions.Comparing AI response patterns across three profile-disclosure conditions AI-generated backgrounds, user self-descriptions, and no-background controls to isolate mechanisms of algorithmic bias and inform fairness evaluation practices.	
Research Assistant – Biomedical Signal Processing <i>ELTE Faculty of Informatics, Numerical Analysis Dept. (Prof. Péter Kovács)</i>	Aug 2025 – Nov 2025 <i>Budapest, Hungary</i>
<ul style="list-style-type: none">Implementing an autocorrelation-based heart rate estimation method from BCG literature on a novel dataset, validating accelerometer-based cardiac monitoring using finger-worn sensors.Developing a Python signal processing pipeline with Butterworth filtering, peak detection, and quality metrics (skewness, kurtosis) to extract cardiac cycles under motion artifacts.Achieving 1.88 bpm mean absolute error against ECG reference with 93.3% accuracy within ±5 bpm, demonstrating robustness across datasets and sensor configurations.	
Founder & President, ELTE Data Science Club <i>ELTE Faculty of Informatics</i>	Sep 2025 – Present <i>Budapest, Hungary</i>
<ul style="list-style-type: none">Founded a student research organization, expanding membership to 50+ participants across disciplines through strategic programming and faculty collaboration.Designing and delivering technical workshops on ML/AI methods, research tools, and collaborative coding, while coordinating an invited speaker series.Establishing peer mentorship and project-based learning frameworks connecting undergraduate researchers to applied problems and interdisciplinary collaboration.	

TEACHING EXPERIENCE

Senior Student Mentor

ELTE Faculty of Informatics

Sep 2025 – Present

Budapest, Hungary

- Co-instructing **Master's Preparation courses** for cohort of **25 first-year graduate students**, developing curriculum on academic skills, study strategies, and research methodology foundations.
- Delivering **weekly interactive workshops** addressing learning strategies, time management, academic writing, research methods, and computer science study skills tailored to international student needs.
- Providing **ongoing academic mentorship and individual consultations** supporting international students' cultural adaptation, university navigation, and successful integration into Hungarian higher education system.
- Collaborating with faculty on **student support programming and retention initiatives**, serving as accessible first point of contact for academic, administrative, and life-adjustment questions.

Lab Instructor & Teaching Assistant

ELTE Faculty of Informatics

Spring 2026 (Scheduled)

Budapest, Hungary

- Scheduled to lead **laboratory sections** for **Operating Systems** and **Data Structures & Algorithms** courses, facilitating hands-on programming exercises, algorithm implementation, and system-level debugging.
- Conducting **weekly office hours and individual consultations** to support conceptual understanding, debugging assistance, and programming skill development across undergraduate technical coursework.
- Responsible for **grading programming assignments, lab reports, and practical exams**, providing detailed feedback on code quality, algorithm efficiency, documentation, and computational thinking.

RESEARCH COMPETENCIES & TECHNICAL SKILLS

Research Areas: Data science and machine learning, Agentic AI systems, Natural language processing, Human–AI interaction, Algorithmic fairness, Computational social science, Biomedical signal processing

AI/ML Methods: Large language models, Multi-agent systems, Retrieval-augmented generation (RAG), Topic modeling (BERTopic), Embedding-based semantic analysis, Swarm intelligence, Model evaluation

Programming & Tools: Python (NumPy, SciPy, Pandas, scikit-learn), Java, SQL, Git, L^AT_EX, Jupyter, Docker, Linux/Bash, HuggingFace, LlamaIndex, DSPy

Research Communication: Technical writing, academic presentations, documentation, peer collaboration, student mentorship

REFERENCES

Prof. László Gulyás

Dept. of Artificial Intelligence, ELTE
lgulyas@inf.elte.hu

Prof. Gergely Bencsik

Dept. of Data Science, ELTE
bg@inf.elte.hu

Dr. Itilekha Podder

Dept. of Data Science, ELTE
itilekha19@inf.elte.hu

Prof. Péter Kovács

Faculty of Informatics, ELTE
kovika@inf.elte.hu

HONORS & AWARDS

Stipendium Hungaricum Scholarship

Hungarian Government, Full tuition and living stipend for BSc studies

2022–2025

ELTE, Hungary

PEEF Merit Scholarship

Punjab Educational Endowment Fund, Government of Pakistan

2021

Top national performance

LANGUAGES

English: Fluent (professional working proficiency)

Urdu: Native

Punjabi: Native

Hungarian: Basic (A1-A2)