

Salman Masih

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SUMMARY

Ph.D. candidate in Computer Science specializing in Natural Language Processing, with a focus on multilingual transformer models, legal text summarization, and fairness in large language models for low-resource languages. My research investigates adapting LLMs to domain-specific, low-resource contexts through few-shot and zero-shot learning, architectural comparisons, and parameter-efficient fine-tuning.

EXPERIENCE

Teaching Assistant, Databricks	(SEP 2023 – SEP 2024)
Lecturer, Air University, Islamabad, Pakistan	(SEP 2021 – SEP 2022)
Lecturer, Foundation University Islamabad, Pakistan	(MAR 2020 – SEP 2021)
Lecturer, University of Sialkot, Pakistan	(OCT 2016 – FEB 2020)

EDUCATION

Ph.D. Computer Science Air University Islamabad, Pakistan (Natural Language Processing) <i>Thesis: Low-Resource Legal Text Understanding and Abstractive Summarization by Exploiting Transformer-Based Approaches</i>	(FEB 2019 – Expected Defense Nov 2025)
MS (CS) Capital University of Science & Technology, Islamabad, Pakistan Machine Learning <i>Thesis: Predicting Bollywood Movie Success Using Zee Cine & IFFA Awards</i>	(SEP 2013 – JAN 2016)
MCS Virtual University of Pakistan, Lahore, Pakistan Database Management Systems	(APR 2011– APR 2013)
B.Sc. University of the Punjab, Lahore, Pakistan Computer Science, Mathematics & Statistics	(SEP 2008 – SEP 2010)

PUBLICATIONS

- Masih, S., Hassan, M., Fahad, L. G., & Hassan, B. (2025). Transformer-Based Abstractive Summarization of Legal Texts in Low-Resource Languages. *Electronics*, 14(12), 2320. <https://doi.org/10.3390/electronics14122320>
- Salman Masih and Imran Ihsan, "Using Academy Awards to Predict Success of Bollywood Movies using Machine Learning Algorithms" *International Journal of Advanced Computer Science and Applications(IJACSA)*, 10(2), 2019. <http://dx.doi.org/10.14569/IJACSA.2019.0100257>
- PEFT Meets Legal NLP: Parameter-Efficient Strategies for Low-Resource Legal Text Abstractive Summarization (Under-Review)

Workshops/Seminars (Participated/Attended)

- [The Amazing World of Neural Language Generation](#) (Ji et al., EMNLP 2020)
- Principles of Language Testing
- The Scope of Linguistics, English in Pakistan, and its Teaching Practices
- Web Mining and Semantic Computing
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PROFESSIONAL SPECIALIZATION & CERTIFICATIONS

- [Data Scientist with Python Track Specialization \(datacamp.com\)](https://datacamp.com)

- [Natural Language Processing Specialization \(deeplearning.ai\)](#)
- [Deep Learning Specialization \(deeplearning.ai\)](#)
- [DeepLearning.AI TensorFlow Developer Professional Certificate \(deeplearning.ai\)](#)
- [Large Language Models Professional Certificate \(Databricks\)](#)
- [Generative AI Engineering with LLMs Specialization \(IBM\)](#)
- [Large Language Models Specialization \(H2O.ai\)](#)
- [Learn Generative AI with LLMs \(Edureka\)](#)
- [Generative AI with Large Language Models Course \(deeplearning.ai\)](#)
- [Generative Pre-trained Transformers Course \(GPT\)](#)
- [Deep Learning for Natural Language Processing Course \(University of Colorado\)](#)
- [Pretraining LLMs Course \(deeplearning.ai\)](#)
- [Quantization Fundamentals with Hugging Face Course \(deeplearning.ai\)](#)
- [Understanding and Applying Text Embeddings Course \(deeplearning.ai\)](#)
- [Finetuning Large Language Models Course \(deeplearning.ai\)](#)

Programming Languages Proficiency & Skills

Python, C/C++, TensorFlow, Keras, Git, Hugging Face. PyTorch, scikit-learn, SpaCy, NLTK, gensim.

COURSES TAUGHT

- Programming Fundamentals
- Object-Oriented Programming using C++
- Introduction to Artificial Intelligence
- Introduction to Data Science
- Compiler Construction
- Natural Language Processing

RESEARCH INTEREST

Abstractive Text Summarization, Low-Resource and Legal NLP, Resource-Efficient Machine Learning, LLMs,

AWARDS

Merit scholarship, full tuition fee waiver on achieving a 3.73 CGPA in the first semester of MCS.

LANGUAGES

Punjabi (native), Urdu (working proficient), English (working proficient)

REFERENCES

Dr. Anees Baqir
Assistant Professor in Data Science
Department of Computing
Northeastern University, London
Email: a.baqir@northeastern.edu

Dr. Mehdi Hassan
Associate Professor (Tenured)
Department of Computer Science
Air University, Islamabad
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