Salman Masih

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SUMMARY

An academician with six years of teaching experience, natural language processing, machine, and deep learning enthusiast, exploring large language models and their evaluation for summarization of low resource languages, natural language modelling, understanding, and generation.

EXPERIENCE

Teaching Assistant	Databricks (LLMs Specialization via edx.org)	(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. Air University Islamabad, Pakistan   (FEB 2019 – expected JUL 2025)
Computer Science (NLP)
Thesis: Low Resource Legal Text Understanding and Abstractive Summarization by Exploiting Transformer-Based Approaches

MS (CS) Capital University of Science & Technology, Islamabad, Pakistan   (SEP 2013 – JAN 2016)
Computer Science (ML)
Thesis: Predicting Bollywood Movies Success Using Zee Cine & IFFA Awards

MCS Virtual University of Pakistan, Lahore, Pakistan   (APR 2011– APR 2013)
Computer Science (DB)

B.Sc. University of the Punjab, Lahore, Pakistan   (SEP 2007 – SEP 2010)
Computer Science, Mathematics & Statistics

PUBLICATIONS

1. *Abstractive Text Summarization by Exploiting Transformer Based Approaches (**under review**)*

2. *Few-Shot and Zero-Shot Learning for Low-Resource Legal Text Summarization (**under review**)*

3. *Encoder-Decoder vs. Decoder-Only Architectures for Legal Summarization(**under review**)*

Workshops/Seminar (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

PROFESSIONAL CERTIFICATIONS & SPECIALIZATION

- Data Scientist with Python Track (datacamp.com)
- Natural Language Processing (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 (IBM)
- Large Language Models (H20.ai)
- Generative AI with Large Language Models (deeplearnign.ai)
- Pretraining LLMs(deeplearning.ai)
- Quantization Fundamentals with Hugging Face (deeplearnign.ai)

- Understanding and Applying Text Embeddings(deeplearnign.ai)
- Finetuning Large Language Models(deeplearnign.ai)

Programming Languages Proficiency & Skills
- Python, C/C++, TensorFlow, Keras, Git, Hugging Face. PyTorch, scikit-learn, SpaCy, NLTK, gensim.

PROJECT IMPLEMENTATIONS
- Fine Tune BERT for Text Classification with TensorFlow
- Basic Sentiment Analysis with TensorFlow
- Amazon Echo Reviews Sentiment Analysis Using NLP
- Detect Fake News in Python with TensorFlow
- NLP: Twitter Sentiment Analysis
- Perform Sentiment Analysis with scikit-learn.
- Sentiment Analysis with Deep Learning using BERT

COURSES TAUGHT
- Programming Fundamentals and OOP using C++.

- Introduction to Artificial Intelligence

- Introduction to Data Science

- Compiler Construction

- Natural Language Processing

RESEARCH INTEREST
- Large Language Models
- Natural Language Processing
- Machine Learning
- Deep Learning

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. Muhammad Tanvir Afzal
Director and Professor
Department of Computing
STMU, Park Road Campus
Shifa Tameer-e-Millat University, Islamabad, Pakistan
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Dr. Mehdi Hassan
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Air University, Islamabad
Islamabad, Pakistan.
Email: mehdi.hassan@mail.au.edu.pk

Dr. Imran Ihsan
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