Seoul, Rep. of KOREA

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"Be the change that you want to see in the world."

Education

KAIST(Korea Advanced Institute of Science & Technology)

Seoul, S.Korea

Aug. 2022 - Now

Ph.D. IN ARTIFICIAL INTELLIGENCE

 Advisor: Song Chong · Co-Advisor: James Thorne

KAIST(Korea Advanced Institute of Science & Technology)

Seoul, S.Korea

Aug. 2021 - Aug. 2022

M.S. IN ARTIFICIAL INTELLIGENCE · Advisor: Song Chong

· Co-Advisor: James Thorne

NUST(National University of Sciences & Technology)

Islamabad, Pakistan

Sep. 2017 - July. 2021

B.F. IN COMPUTER SCIENCE AND ENGINEERING

• Thesis: IoT-Based Intelligent Manufacturing Execution System with Predictive Analysis

Professional Experience ____

Korea Advanced Institute of Science & Technology

Seoul, S.Korea

Aug. 2021 - Now

AI RESEARCHER • Working as a server manager in xfact lab.

- Working in xfact lab on Large Language Models.
- · Worked on Vision Language Navigation with Reinforcement Learning.

RiseTech Islamabad, Pakistan

- Mar. 2021 July 2021 RESEARCH INTERN · Worked on spine segmentation with UNET for scoliosis diagnosis.
- Worked on CXR abnormality diagnosis using VilBERT.

RiseTech Islamabad, Pakistan

WEB DEVELOPER

Sep. 2019 - Oct. 2019

· Contributed to developing an Angular-based website.

Islamabad, Pakistan

July. 2019 - Sep. 2019

• Contributed to developing an Android-based application, "Amber Chat," for a secure communication.

EME Centre of Innovation & Entrepreneurship

Islamabad, Pakistan

EMBEDDED SYSTEM ENGINEER

ANDROID APP DEVELOPER

microTech Services(Pvt) Ltd

Oct. 2018 - Dec. 2018

• Worked on a Real-time operating system for a microcontroller for low-latency applications.

Publications

UNDER REVIEW

STEPER: Self-Tuning by Exploring and Pruning for Explanatory Reasoning in Large Language Models. EMNLP, 2023 Jiwoo Hong, **Huzama Ahmad**, Minsu Kim, James Thorne

- TL;DR: We developed a self-tuning method that uses Reinforcement Learning to improve the reasoning abilities of Instruction-Tuned Language Models.
- · Keywords: Large Language Models, Reinforcement Learning, Self-Supervision, Reasoning

Teaching Assistant

Fall 2023 Al605: Deep Learning for Natural Language Processing, Teaching Assistant

KAIST AI

Honors & Awards

AWARDS

2018	Commandant Gold Medal of Excellence, National University of Sciences and Technology	Isb., Pakistan
2017	Commandant Silver Medal of Excellence, National University of Sciences and Technology	Isb., Pakistan

SCHOLARSHIPS

2021	Fully funded Ph.D. Program, Korea Advanced Institute of Science & Technology	S. Korea
2020	Merit Based Scholarship, National University of Sciences and Technology	Pakistan
2019	Merit Based Scholarship, National University of Sciences and Technology	Pakistan
2018	Merit Based Scholarship, National University of Sciences and Technology	Pakistan

Miscellaneous _____

SKILLS

Mathematical Background Probability and Statistics, Linear Algebra, Multivariate Calculus, Complex Variables & Transforms,

Ordinary Differential Equation, Numerical Methods

Soft Skills Analytical problem solving, Critical thinking, Team work

Programming Python, C++, Assembly, LaTeX, Matlab

Languages English, Urdu

CERTIFICATES

Jan. 2023 Specialization: Natural Language Processing, DeepLearning.Al	Coursera
Sep. 2022 Specialization: Reinforcement Learning, University of Alberta	Coursera
Oct. 2021 Specialization: Deep Learning, DeepLearning.Al	Coursera
Oct. 2021 Specialization: Mathematics for Machine Learning, Imperial College London	Coursera