

Huzama Ahmad

PH.D. CANDIDATE · ARTIFICIAL INTELLIGENCE

Seoul, Rep. of KOREA

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Education

KAIST(Korea Advanced Institute of Science & Technology)

PH.D. IN ARTIFICIAL INTELLIGENCE

- Advisor: James Thorne

Seoul, S.Korea

Aug. 2022 - Now

KAIST(Korea Advanced Institute of Science & Technology)

M.S. IN ARTIFICIAL INTELLIGENCE

- Advisor: James Thorne

Seoul, S.Korea

Aug. 2021 - Aug. 2022

NUST(National University of Sciences & Technology)

B.E. IN COMPUTER SCIENCE AND ENGINEERING

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

Islamabad, Pakistan

Sep. 2017 - July. 2021

Professional Experience

Korea Advanced Institute of Science & Technology

GRADUATE RESEARCHER

- Working in the xfact lab on large language models.
- Working as a server manager in xfact lab.
- Worked on Vision Language Navigation with Reinforcement Learning.

Seoul, S.Korea

Aug. 2021 - Now

RiseTech

RESEARCH INTERN

- Developed a system for early detection of scoliosis using spine segmentation.
- Developed a caption generator for chest X-rays.

Islamabad, Pakistan

Mar. 2021 - July 2021

RiseTech

WEB DEVELOPER

- Contributed to the development of an Angular-based website.

Islamabad, Pakistan

Sep. 2019 - Oct. 2019

microTech Services(Pvt) Ltd

ANDROID APP DEVELOPER

- Contributed to the development of an Android-based application, "Amber Chat", for secure communication.

Islamabad, Pakistan

July. 2019 - Sep. 2019

EME Centre of Innovation & Entrepreneurship

EMBEDDED SYSTEM ENGINEER

- Worked on a real time operating system for a microcontroller designed for low latency applications.

Islamabad, Pakistan

Oct. 2018 - Dec. 2018

Publications

DOMESTIC JOURNALS

(CKAIA'23) Self-Guided Framework for Improving Arithmetic Reasoning in Large Language Models with Reinforcement Learning
Jiwoo Hong, **Huzama Ahmad**, Minsu Kim, James Thorne

(JKAI'A'23) Analyzing Efficacy of Pivot Techniques in LLMs for Low Resource Languages.
Uzair Ahmed, Muhammad Faizan Zahid, **Huzama Ahmad**, James Thorne, Alice Oh

Teaching Assistant

Fall 2023 **AI605: 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

Technical Skills Python, C++, Assembly, LaTeX, TPUs, Pytorch ...

Languages English, Urdu

CERTIFICATES

Jan. 2023 **Specialization: Natural Language Processing**, DeepLearning.AI

Coursera

Sep. 2022 **Specialization: Reinforcement Learning**, University of Alberta

Coursera

Oct. 2021 **Specialization: Deep Learning**, DeepLearning.AI

Coursera

Oct. 2021 **Specialization: Mathematics for Machine Learning**, Imperial College London

Coursera