Huzama Ahmad

GRADUATE. RESEARCHER · ARTIFICIAL INTELLIGENCE

Seoul, Rep. of KOREA

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Education

KAIST(Korea Advanced Institute of Science & Technology)   *Seoul, S.Korea*

PH.D. IN ARTIFICIAL INTELLIGENCE   *Aug. 2022 - Now*

- Advisor: Song Chong
- Co-Advisor: James Thorne

KAIST(Korea Advanced Institute of Science & Technology)   *Seoul, S.Korea*

M.S. IN ARTIFICIAL INTELLIGENCE   *Aug. 2021 - Aug. 2022*

- Advisor: Song Chong
- Co-Advisor: James Thorne

NUST(National University of Sciences & Technology)   *Islamabad, Pakistan*

B.E. IN COMPUTER SCIENCE AND ENGINEERING   *Sep. 2017 - July. 2021*

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

Professional Experience

Korea Advanced Institute of Science & Technology   *Seoul, S.Korea*

AI RESEARCHER   *Aug. 2021 - Now*

- 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*

RESEARCH INTERN   *Mar. 2021 - July 2021*

- 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.

microTech Services(Pvt) Ltd   *Islamabad, Pakistan*

ANDROID APP DEVELOPER   *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   *Oct. 2018 - Dec. 2018*

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

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

(JKAIA'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*