HAIDER ALI

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LinkedIn : www.linkedin.com/in/haider-ali605 **Github:** https://github.com/Hyder605 Google Scholar

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CAREER OBJECTIVE

- Highly energetic and motivated to pursue my Ph.D. in the field of **Artificial Intelligence** which is shaping the world into a new era. Looking for an opportunity to learn new technologies to enhance and engage skills, which help me to grow in the field of research and development to overcome the challenges which are facing by world community. Currently, my research interest includes **Deep Learning, NLP, LLMS and Generative AI**

EDUCATION

- **Inje University, Gimhae, South Korea (Master's Degree)** **2023- Continue**
  - Major: Artificial Intelligence in Healthcare (**CGPA: 4.50/4.50)**
  - Thesis Title: AI-Powered Medical Report/Caption Generation Using Deep Learning and Large Language Models

Bachelor of Science in Mechanical Engineering

- University of Engineering and Technology, Taxila, Pakistan 2012– 2016

FYP: Design and Experimental Analysis on Solar Parabolic Trough using Nano Particle
- Designing Parabolic Trough
- Nano Particle Preparation: Analysis by using Evacuated Tube: Analysis by using copper tube

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INDUSTRY EXPERIENCE

- **Maintenance Engineer: Rupafill Limited (Rupali Group)** Sheikhupura, Pakistan |2018-2019

By Data Analysis using **Python Programming**, Improved the efficiency by 8-10% in the following areas:
- **Troubleshooting**: Managed and resolved troubleshooting of equipment according to best applicable practices
- **Reliability Enhancement:** Organized and examined data from inspection/abnormality reports and improved equipment efficiency with proactive actions.

- **Trainee Engineer: Oil and Gas Development Company Limited, Pakistan** 2017–April 2018

My responsibilities include:
- **Overhauling:** Learned and Practiced overhauling of the engine, mud pump, torque converter & reciprocating compressor of degasser.
- **Procurement:** Procured local and imported spare items to maintain the stock position.

TEACHING EXPERIENCE

- **Senior Teacher** June 2019- 2022

Karakoram Institute of Commerce and Technology, Skardu, Pakistan
My responsibilities include:
- **Teaching:** Taught main subjects in Diploma of Associate Engineering (DAE), like Thermodynamics and Hydraulics.
- **Programming:** Teaching Data Analysis using Python Programing

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RESEARCH PROJECTS

- **Medical Modality Classification in Radiology:**
  Developed a model for classifying radiology modalities into 7 distinct classes using the ROCO dataset. Leveraged Llama 3.2 for feature extraction from medical reports and implemented a custom convolutional neural network (CNN) to achieve effective modality classification.
- **Image Caption Generator using Transformer Networks:**
  Trained a custom Transformer-based model on the Flicker 8k dataset for automatic image captioning, improving the accuracy of generated descriptions.
- **Car Parking Optimization System:**
  Developed an algorithm to identify available parking slots and automatically reposition vehicles for optimal parking, ensuring new vehicles are parked in the nearest available spot.

INTERNATIONAL PUBLICATIONS:

- Rashadul Islam Sumon, **Haider Ali**, Salma Akter, Shah Muhammad Imtiyaj Uddin, Md Ariful Islam Mozumder, and Hee-Cheol Kim. 2025. *"A Deep Learning-Based Approach for Precise Emotion Recognition in Domestic Animals Using EfficientNetB5 Architecture"* Link
- Salma Akter, Rashadul Islam Sumon, **Haider Ali**, and Hee-Cheol Kim. 2024. *"Utilizing Convolutional Neural Networks for the Effective Classification of Rice Leaf Diseases Through a Deep Learning Approach"* Electronics 13, no. 20: 4095. Link
- **Haider Ali**, Abdul Rehman Khalid, Ijaz Muhammad Umer, Hee-Cheol Kim. *"Integrating Large Language Models with Deep Learning for Medical Imaging Modality Classification."**(Accepted)***
- Kounen Fathima, **Haider Ali**, Abdul Rehman Khalid, Hee Cheol Kim. *"Integrating Multi-Modal Data with Large Language Model (LLM) and Retrieval-Augmented Generation (RAG) for Clinical Decision Support."**(Submitted for Review)***
- **Haider Ali**, Rashadul Islam Sumon, Abdul Rehman Khalid, Kounen Fathima, Hee-Cheol Kim. *"A Semantic Evaluation Framework for Medical Report Generation Using Large Language Models."**(Accepted)***
- Ijaz Muhammad Umer, Shah Mahsoom Ali, **Haider Ali**, Hee-Cheol Kim. *"Enhancing Nuclei Segmentation with Deep Image Segment Network (DI-SegNet) in Hematoxylin and Eosin-Stained Histopathological Images."**(Accepted)***

SELECTED COURSES

- Computer System & Programing
- Software Development Project
- Thermodynamics
- AI Healthcare Model Building
- Heat and Mass Transfer
- Digital Healthcare
- Medical Image Analysis
- AI Core Concepts and Perspectives
- Advanced Multivariate Analysis in Healthcare Data
- Biomedical Data Statistical Models

CODING SKILLS

- Python, JavaScript, Typescript

OTHER SKILLS AND TECHNOLOGIES

- Experience with Machine learning and Deep Learning algorithms and techniques
- Familiarity with data analysis and visualization tools such as Excel and Power Bi
- Familiarity to create Web Development using NextJs

CERTIFICATION

- Received **1 year "Certified Artificial Intelligence Developer"** Certification offered by Presidential Initiative of Artificial Intelligence and Computing (PIAIC)
- Received "Python for Data Science, AI & Development" Certification offered by IBM (Coursera) Link
- Received "Programming with Python" Certification offered by UpGrad.
- Received "Supervised Machine Learning: Regression and Classification" Certification offered by Coursera Link
- Received "AI for Everyone" Certification offered by DeepLearning.AI (Coursera). Link
- Received "Python Project for Data Science" Certification offered by IBM (Coursera) Link
- Received "Learn Basic Python Programming" Certification offered by UpGrad.
- Received "Data Analysis with Python: Zero to Pandas" Certification offered by Jovian. Link

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OTHER INTERSETS

- Sketching, and Travelling

REFERENCES

- **Dr. Muzaffar Ali , Ph.D.:** Professor Department of Mechanical Engineering, University of Engineering and Technology (UET), Taxila, Pakistan.
  Monil Joo, Ph.D: Assistant Professor Department of Digital Anti-Aging Healthcare Inje University, South Korea. Email: joomi@inje.ac.kr