

Ehsaan Ali

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Summary

PIAIC Certified AI Developer | Microsoft Certified Python Developer | AI Master's Student at Fast University. Skilled in ML, DL, and data science, I specialize in developing advanced algorithms and models, creating custom data pipelines, and building visualization tools for effective decision-making

Education

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|-----------|---|-----------------------|
| MS | FAST NUCES, Isb , Artificial Intelligence | Jan. 2022 to Jan 2024 |
| | <ul style="list-style-type: none">• GPA: 3.7/4.0 (Gold Medal)• Coursework: Deep Learning, Image Processing, Machine Learning and Big Data Analytics | |
| BS | SZABIST, Isb , Software Engineering | Aug. 2017 to Aug 2021 |
| | <ul style="list-style-type: none">• GPA: 3.26/4.0• Coursework: Web Development, Software Engineering and Artificial Intelligence | |

Experience

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| FAST NUCES , Lab Instructor (Permanent) | Isb, Pakistan
Sept 2023 to Jan. 2024
10 months |
| <ul style="list-style-type: none">• Conducted Artificial Intelligence BS Labs covering topics search algorithms, BFS, DFS, Greedy search, A star, and some introductory sessions on Machine learning.• Developing course materials, including lab lectures, lab manuals, assignments, and exams, and employing innovative teaching methods to promote active learning and engagement.• Facilitate student learning through hands-on activities, lab projects, and class discussions, and provide personalized feedback on student work to support their progress.• Researcher - AIM Research Lab• Teaching Assistant - Research methodology | |
| SZABIST , Lab Instructor (Visiting) | Isb, Pakistan
Dec. 2023 to Jan. 2024
4 months |
| <ul style="list-style-type: none">• Conducted Data Structures BS Labs covering different sorting and search algorithms. The labs also focused on implementing different data structures in C++.• Developing course materials, including lab lectures, lab manuals, assignments, and exams, and employing innovative teaching methods to promote active learning and engagement.• Facilitate student learning through hands-on activities, lab projects, and class discussions, and provide personalized feedback on student work to support their progress. | |
| Internships | Isb, Pakistan |
| <ul style="list-style-type: none">• PHP Laravel Internship at Macro Soar• Data Science and Business Analytics at Sparks Foundation• BDO at Ankasky | |

Projects

Activity Recognition

- Developed a Computer vision-based Activity Recognition in CONstruction.
- Used LSTM and CNNs

DeepFake Detection(MS thesis)

- Developed a deep fake detection system using lighting inconsistencies in retinal and face movements.
- Implemented landmark Detection.
- used FacedSwapGAN for deep fake detection.

Automatic Stationary Billing System

- Developed an AI-based Automatic Stationary billing system using YOLO.
- Used Computer Vision algorithms along with Python programming language.

Image Steganography

- Implemented the Enhancement of Encoded Cover in Multi-Image Steganography using Deep Learning
- Used deep learning frameworks.

Smart YouTube Video Assistant

- Developed a Smart YouTube Video Assistant that allows users to input a YouTube video URL and a custom prompt, generating relevant responses in various formats (plain text, text with images, video snippets, or a video response).
- Enhanced user experience by providing additional recommendations, including related web sources, images, and YouTube videos.

Dementia Classification

- Implemented a classifier to classify dementia using a Structured Dataset

Intelligent Health Monitoring System (FYP BS)

- Implemented an intelligent Health Monitor System as a final-year project.
- **Framework** : Django python
- **Front End** : HTML, CSS, Bootstrap, JavaScript, High Charts API
- **Back End** : Python, Regression Algo
- **Database** : PostgreSQL
- **Role** : Front End Development, Backend Development, Forecasting Using Artificial Intelligence

Additional Courses and Workshops

- Certified Artificial Intelligence from PIAIC
- MTA 98-381 Python Certification
- AI for everyone Coursera Certification
- Workshop attempt on Agile Methodology

Technologies

Languages: Python, PHP, SQL, Django, Tensorflow, PyTorch, OpenCV, C, C++, NLTK

Tools and Technologies: Machine Learning, Generative AI, Tableau, Hugging face, Git.