

Haider Sultan

+92 (330)-432-0040 \ haidersultanarc@gmail.com

<https://www.linkedin.com/in/haidersultanarc>

<https://github.com/HaiderSultanArc>

EDUCATION

BS (Hons)

Computer Science, University of Engineering and Technology Lahore

Oct. 2019 - June 2023

Intermediate

(HSSC) Computer Science, Islamia College Civil Lines, Lahore

2017 - 2019

Matriculation

(SSC) Computer Sciences, Comprehensive Higher Secondary School, Lahore

2015 - 2017

RESEARCH EXPERIENCE

Clinical Decision Support System for Unani Medicines

2022 - 2023

As the project lead for an extensive research initiative during my final year, I spearheaded the collection and digitization of a vast array of Unani medicine data, laying the foundation for groundbreaking advancements in the field. Utilizing cutting-edge techniques such as machine learning, deep learning, and reinforcement learning, we developed sophisticated models that have opened up new avenues for research and analysis within the Unani Medicine System.

Our team's dedication and hard work culminated in the creation of a groundbreaking prototype Clinical Decision Support System (CDSS) and Research platform, which will provide unprecedented insight and understanding of this fascinating field. Our findings have been meticulously documented in a comprehensive research thesis, ensuring that this work will serve as a valuable resource for generations to come.

Relevant EXPERIENCES

Internship as an AI Engineer

March 2022 – September 2022

- Conducted research to develop new Machine Learning solutions for problems.
- Analyzed data to identify trends and potential problems and devise solutions.
- Collaborated with different teams on project tasks and development.
- Developed prototype full stack application to solve niche problems with AI.
- Learned about Cloud Computing and its use in scalable AI Applications.

Associate AI Engineer

September 2022 – April 2023

- Developed Machine Learning models for solving various problems.
- Researched different Deep Learning algorithms and tools to determine optimal implementation.
- Employed MLOps for the development of end-to-end AI Pipelines.
- Orchestrated backend for scalable AI Mobile and Web Apps.
- Handled Cloud Operations and Containerizations for timely delivery of applications at scale.

Open-Source Contribution

2019 - Present

Developing programs and software, making it publicly available on GitHub and contribution to other's code.

FIELD PROJECTS

Handwritten Digit Recognition

Developed an OCR model using CNN to detect handwritten numbers from 1-9.

Neural Style Transfer

Developed a Neural Style Transfer using ResNets to generate image that combines style from an image with the content of another image

Image Segmentation

Developed an image Segmentation program to identify objects in an image

Face Recognition

Face Recognition program using CNNs

Music Generation

Music Generation with RNNs

Linux Distro Recommender

Developed a website and deployed an ML Model to predict the single best Linux Distro based on user preferences.

COURSES AND CERTIFICATIONS

Neural Networks and Deep Learning

Online Course on Coursera by Deeplearning.ai, part of Deep Learning Specialization

Oct 2020

Improving Deep Neural Networks

Online Course on Coursera by Deeplearning.ai, part of Deep Learning Specialization

Nov 2020

Structuring Machine Learning Projects

Online Course on Coursera by Deeplearning.ai, part of Deep Learning Specialization

Jan 2021

Data Analysis with Python

Online Course on Coursera by IBM

Feb 2021

Fundamentals of Reinforcement Learning

Online Course on Coursera by University of Alberta and other partners, part of Reinforcement Learning Specialization

Nov 2022

Convolutional Neural Networks

Online Course on Coursera by Deeplearning.ai, part of Deep Learning Specialization

Jan 2023

Sequence Models

Online Course on Coursera by Deeplearning.ai, path of Deep learning Specialization

Feb 2023

FIELD SKILLS AND INTERESTS

Languages and Tools

Python, C++, TensorFlow, PyTorch, Scikit-Learn, OpenAI Gym, TensorFlow Agents, PyTorch-RL, Keras-RL, Pandas, NumPy, Dask, PySpark, SciPy, Matplotlib, Google Cloud Platform, AWS, Azure, Docker, Kubernetes, Snowflake, Redis, VertexAI

Algorithms

Neural Networks, Convolutional Neural Networks, U-Nets, ResNets, Neural Style Transfer, YOLO, Recurrent Neural Networks, LSTM, GRU, Transformers, Attention Models, K-Armed Bandits, MDPs, Deep Q-Networks, Genetic Algorithms, Decision Trees, Random Forests, Linear and Logistic Regression, KNN