SYED KAZIM HAIDER

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https://github.com/syedkazim110?tab=repositories

EDUCATION

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology Topi, Pakistan

Bachelor of Science in Artificial Intelligence *Graduation Date: June 2025*

Relevant Coursework: Deep Neural Network, Machine Learning, Computer Vision, Natural Language Processing, Data Structures, Algorithms, OOP, Operating Systems, Databases, Parallel & Distributed Computing, Computer Networks, Statistics

Certifications: Advanced Learning Algorithms, Supervised Machine Learning by Deeplearning.AI

SKILLS

Programming Languages: C++, Python, Node.js

Machine Learning & AI: Machine Learning, Scikit-Learn, TensorFlow, CNNs, GANs, AutoML H2O, Natural Language Processing, Computer Vision

Development Tools: Pandas, NumPy, Data Cleaning, Feature Engineering, Data Plotting & Analysis, Microsoft Office**,** OracleSQL

Web & Blockchain: Hardhat, Remix, MetaMask

Other (Core Skills): Problem Solving, Analytical Reasoning, Critical Thinking, Team Collaboration

WORK EXPERIENCE

Machine Learning (ML) Intern **June 2024 – July 2024** *(6 weeks)*

Kairiz Cyber Technologies (Remote)

- Worked on various machine learning tasks, contributing to model optimization.
- Conducted data preprocessing and feature engineering for improved performance.
- Assisted in developing predictive analytics solutions using AI techniques.

PROJECTS

DentalAI (**Final Year Project)**

- Developed a CNN-based deep learning model to predict dental angles from X-ray images.
- Processed medical imaging data and ensured aspect ratio consistency.
- Implemented supervised learning with MSE loss & Adam optimizer.
- Evaluated performance using MAE, RMSE, and R^2 metrics. Designed to assist dentists with automated dental analysis

Text to image Synthesis using Conditional GANs

- Explored Generative Adversarial Networks (GANs) in independent research.
- Implemented GAN architectures and experimented with synthetic data generation.
- Gained insights into adversarial training and generative modeling.
- Developed a strong appreciation for AI's intersection with creativity and fueled curiosity to explore advanced machine learning techniques.

Classification of Lung Abnormalities Using CNN

- Implemented 3D CNNs for medical image classification.
- Focused on deep learning for pulmonary health diagnosis.
- Improved accuracy in detecting lung abnormalities.

Decentralized Identity System

- Developed a blockchain-based identity verification system.
- Deployed smart contracts using Remix, Hardhat, and Ethereum Testnet.
- Ensured secure & efficient blockchain interactions.

Disease Prediction

- Built and deployed an ML model for disease prediction using patient data.
- Implemented advanced algorithms and data preprocessing techniques.
- Showcased AI's potential in early diagnosis and medical applications

Injury Prediction in Competitive Runners

- Developed predictive algorithms to assess injury risk in athletes.
- Utilized data analytics & feature engineering for risk factor identification.
- Highlighted AI's role in proactive healthcare and performance enhancement.

AQI (Air quality index) Prediction

- Conducted Web Scraping & exploratory data analysis.
- Applied AutoML H2O and other ML models for prediction.
- Enhanced data-driven decision-making for air quality monitoring.

RISC-V

- RISC-V model Implemented key components: instruction decoding, pipelining, and memory management.
- Demonstrated proficiency in computer architecture and assembly programming.