

SYED KAZIM HAIDER

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

Professional Summary

Highly motivated Artificial Intelligence student with a strong foundation in machine learning, deep learning, and software development, seeking a Software Engineering Intern position to contribute to AI-powered solutions. Proven ability in developing and optimizing AI models, data preprocessing, and creating predictive analytics, with a specific interest in healthcare and medical applications, including a final year project focused on dental AI. Eager to apply and expand skills in a fast-paced startup environment, working with cutting-edge AI technologies and modern software stacks.

Skills

Programming & Development: C++, **Python**, **Node.js**, OOP, Data Structures, Algorithms, Databases, Computer Networks, Operating Systems

AI/Machine Learning: Machine Learning, Deep Learning, CNNs, GANs, Natural Language Processing (NLP), Computer Vision, Scikit-Learn, **TensorFlow**, AutoML H2O, Predictive Analytics

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

Web & Blockchain (Foundational): Hardhat, Remix, MetaMask (Demonstrates understanding of distributed systems and development)

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

Work Experience

Machine Learning (ML) Intern | Kairiz Cyber Technologies (Remote)

June 2024 – July 2024 (6 weeks)

- * Contributed to **model optimization** across various machine learning tasks.
- * Conducted extensive **data preprocessing and feature engineering** to enhance model performance.
- * Assisted in developing **predictive analytics solutions** leveraging diverse AI techniques.

Projects

DentalAI (Final Year Project)

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

Disease Prediction

- * Built and deployed an **ML model for disease prediction** using patient data.

- * Implemented advanced algorithms and **data preprocessing techniques**, showcasing AI's potential in early diagnosis and medical applications.

Classification of Lung Abnormalities Using CNN

- * Implemented 3D **CNNs for medical image classification**, specifically focusing on deep learning for pulmonary health diagnosis.
- * Achieved improved accuracy in detecting lung abnormalities from medical images.

Text to Image Synthesis using Conditional GANs

- * Explored **Generative Adversarial Networks (GANs)**, implementing GAN architectures and experimenting with synthetic data generation.
- * Gained insights into adversarial training and generative modeling, fueling curiosity for advanced machine learning techniques relevant to content generation.

Injury Prediction in Competitive Runners

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

AQI (Air Quality Index) Prediction

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

Decentralized Identity System

- * Developed a blockchain-based identity verification system, deploying smart contracts using Remix, Hardhat, and Ethereum Testnet.
- * Ensured secure and efficient blockchain interactions, demonstrating proficiency in distributed system development.

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