SYED KAZIM HAIDER

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Professional Summary

Highly motivated and results-oriented **Software Engineering Intern** with a Bachelor of Science in **Artificial Intelligence** and practical experience in **Machine Learning**, **Deep Learning**, and **Computer Vision**. Eager to apply strong analytical and problem-solving skills to develop **AI-powered** solutions, with a particular interest in medical and **dental applications**. Proven ability to work with **Python** and **Node.js**, passionate about learning new technologies including **ReactJS**, **Next.js**, **LLMs**, and **RAG pipelines** to build innovative platforms.

Skills

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

AI/Machine Learning: Machine Learning, Deep Neural Networks, **TensorFlow**, Scikit-Learn, CNNs, GANs, AutoML H2O, **Natural Language Processing**, **Computer Vision**, **LLMs** (familiar with concepts, eager to learn **OpenAI**, **Anthropic**), **RAG pipelines** (eager to learn **Pinecone**, **Vector DBs**)

Data Tools & Analysis: Pandas, NumPy, Data Cleaning, Feature Engineering, Data Plotting & Analysis, Web Scraping

Development & Cloud: Node.js development, API Integration, Microsoft Office, OracleSQL, Hardhat, Remix, MetaMask, **AWS** (eager to learn deployment & management)

Frontend (Eager to learn): ReactJS, **Next.js**, **Tailwind CSS**

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.

* Executed **data preprocessing** and **feature engineering** to enhance model performance.

* Assisted in developing **predictive analytics** solutions leveraging **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 accurate model training.

* Implemented supervised learning with MSE loss and Adam optimizer for robust model training.

* Evaluated model performance using MAE, RMSE, and R^2 metrics.

Classification of Lung Abnormalities Using CNN

* Implemented 3D CNNs for **medical image classification**, focusing on pulmonary health diagnosis.

* Achieved improved accuracy in detecting lung abnormalities through **deep learning** techniques.

Text to image Synthesis using Conditional GANs

* Explored Generative Adversarial Networks (**GANs**) and implemented GAN architectures for synthetic data generation.

* Gained insights into adversarial training and generative modeling, deepening understanding of advanced **AI techniques**.

Disease Prediction

* Built and deployed an **ML model** for disease prediction using patient data, showcasing **AI's potential in early diagnosis and medical applications**.

* Implemented advanced algorithms and **data preprocessing** techniques for accurate predictions.

Injury Prediction in Competitive Runners

* Developed **predictive algorithms** to assess injury risk in athletes, utilizing **data analytics** and **feature engineering**.

* Highlighted **AI's role in proactive healthcare** and performance enhancement.

AQI (Air quality index) Prediction

* Conducted Web Scraping and exploratory data analysis to gather and prepare data.

* Applied AutoML H2O and other **ML models** for air quality prediction, enhancing data-driven decision-making.

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 full-stack development capability.

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