Moiz KHUZEMA

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OBJECTIVE: Machine learning practitioner with two years of experience at multinational firms, seeking opport... develop AI-driven solutions.

EDUCATION

Artificial Intelligence — *Bachelors of Science*   AUG 2020 - MAY 2024
Ghulam Ishaq Khan Institute   Topi, Pakistan

WORK EXPERIENCE

Afiniti — *Data Scientist 2*   JUNE 2024 - PRESENT
- Developed AI model for intelligent pairing of customers with agents in call centers using **R, Statistics, Bayesian Estimates, and Linear Programming**, increasing revenue by 3.75%
- Implemented Product Recommendation System using **Python, TensorFlow, Transformers, and Random Forest**, enhancing client lifetime value by 5.89%.
- Deployed solutions at TruGreen's sales and customer care call centers, utilizing tools such as Jira, MySQL, and Greenplum leading to 8% improvement in overall call resolution efficiency

Smallcap.ai — *Machine Learning Engineer*   JULY 2023 - JUNE 2024
- Developed DNS for Web3 Applications utilizing text generation models, including **GPT, GorillaLLM, and Cohere**, achieving 90% response accuracy
- Implemented digital assest generation capabilities using **DALL-E 3 and Stable Diffusion**, increasing visual accuracy to 80%
- Implemented AI Agents for High Frequency Trading of digital assests using **Databricks, Langchain and Langgraph**, generating $100000 in assests traded
- Engineered backend and front end using **Flask, Node, Next.js, TypeScript, Tailwind CSS, and MongoDB**, supporting over 100,000 monthly active users (https://3ns.ai/)
- Collaborated in an **Agile/Scrum** team of 8 engineers to deliver new features every 2 weeks.

FREELANCE EXPERIENCE

Website Aesthetics Scorer — *Deep Learning*   DECEMBER 2023 - JANUARY 2024
- Used **Keras/TensorFlow** to build a CNN model that scores website aesthetics, achieving an accuracy of 90%
- Augumented Kaggle's 20000 Webscreenshots dataset and trained the model to identify webpage domain and rate aesthetics respectively

Floor Plan Generation using GAN — *Generative AI*   AUGUST 2023 - NOVEMBER 2023
- Engineered a GAN model using **Pytorch** to generate house blueprints based on house dimensions, achieving accuracy rate of 72%
- Leveraged LIFULL HOME's dataset comprising 117,000 floor plans, optimizing model performance and realism, resulting in a 40% reduction in false positives

ACADEMIC PROJECTS

AI Crypto Trading Signal Generator — *FYP*   MAY 2023 - MAY 2024
- Used **Langchain** to build AI Agent for generating real-time trading signals, boasting an impressive 70% accuracy rate and zero false positives.
- Utilized **Binance API, TALib and Selenium** to conduct technical analysis on historical data and gather market/news sentiment, enhancing accuracy by 30% compared to conventional methods

Exploratory Data Analysis — *Kaggle*   AUGUST 2021 - MAY 2024
- Datasets Analyzed: CIFAR-10, Pak-Wheels, Play Tennis, Breast Cancer, Titanic, Iris, Pima Indians Diabetes
- Languages Used: **Python, R**

Algorithms Implemented From Scratch — *Course work*   AUGUST 2021 - MAY 2024
- AI Algorithms: Linear Regression, Logistic Regression, Decision Trees, K-mean Clustering, SVM Sort
- Search/Sort Algorithm: Bubble Sort, Insertion Sort, Merge Sort, Quick Sort Search Algorithms: Breath First, Depth First, A-star
- Other: Huffman Encoding, Minimax
- Languages Used: **C, C++**

SKILLS

- Languages: **Python, R, Git, Javascript, C, C++**
- Frameworks: **TensorFlow, Pytorch, Scikit-Learn, NLTK, Langchain, HuggingFace, NVIDIA CUDA, Spark, Databrick**
- Fullstack: **HTML/CSS, TypeScript, Nodejs, Reactjs, Nextjs, PostgreSQL, MongoDB, RestAPI, Flask**