

M Jahangeer Qureshi

m.jahangeer.qureshi@gmail.com

Principal ML Engineer

GitHub: MJahangeerQureshi

LinkedIn: mjahangeerqureshi

SKILLS

Programming Languages	Python, Javascript, Golang, Rust, SQL
General Frameworks	Pandas, Numpy, Scikit-Learn, PySpark, GGPlot, D3, OpenCV
AI Frameworks	PyTorch, Tensorflow, XGBoost, Sklearn, Huggingface Transformers, GPT3, NLTK, Spacy
Databases	SQL(PostgreSQL), NoSQL(MongoDB), Key Value(redis), Vector Databases(Mivus / Qdrant)
API Frameworks	Python(FastAPI, Flask, Django), Golang(Mux, Gin), Rust(Actix)
Frontend Frameworks	Vue.js, Nuxt.js, Svelte, Sveltekit(Javascript), Streamlit, Dash(Python)
Cloud Platforms	GCP, Azure, AWS, Paperspace, Heroku, Digital Ocean

TECHNICAL EXPERIENCE

Principal ML Engineer

May 2020 — Oct 2023

EntropyX

- At EntropyX, I work with clients and product managers to research and develop products that utilize AI and Deep Learning
- Spearheaded the creation and maintenance of an innovative food-ordering **chatbot** for several popular fast food chains on the US east coast, including **Papa John's**, **Pepperonis**, and **Hungry Howies**. Oversaw the successful processing of over a **million orders** per month. As a result, I have helped these businesses enhance their customer experience and increase their revenue.
- Spearheaded the development of an Intelligent Document Processing (IDP) system, overseeing AI, backend, and frontend components. This cutting-edge solution is now deployed across **ADIB, RakBank and Haifin in the UAE**, revolutionizing data entry and KYC processes. Handling over **half a million documents** monthly, it significantly accelerates document digitization, driving substantial cost savings and operational efficiency.
- Led the development and deployment of an AI blockchain-based invoice checking tool in the UAE Trade Connect initiative by **Etisalat (Haifin)**, significantly reducing trade finance fraud in associated banks, including **First Abu Dhabi Bank, Emirates NBD, and Abu Dhabi Commercial Bank**.
- Developed a surveillance system that can automatically recognize faces and search videos using language-image forensic search. This system can retrieve similar faces in just **3.3 milliseconds** per image, a significant improvement from the **2.5 seconds** per image of the previous system.
- Programmed state-of-the-art cell segmentation systems to assist nurses and doctors, reducing the time to assess cancer cell migrations from **20 hours to 40 seconds**.
- Contributed to developing the AI backend for Xeric.AI, an AIOps platform that uses unstructured log messages to assess the health and stability of large software systems, resulting in a significant reduction of error detection time from **2-3 weeks to 1-2 days**. This resulted in a published paper.

Data Scientist

July 2018 — May 2020

Tintash

- At Tintash my role involved researching, engineering, and maintaining the various AI systems Tintash includes in its offerings.
- Designed an issue tracker classification system to reduce time spent assessing technical issues from **1.5 hours to 7 minutes**.
- Designed and Engineered a voice-to-voice translation system to allow multilingual conversations. The system supported translation between **50 languages**.

Junior Machine Learning Engineer

July 2017 — June 2018

Experts Vision

- Researched the incorporation of modern AI methodologies into Brain Controlled Prostheses with several professors from NUST (Pakistan) and PNU (South Korea). Published **3 papers** on the results we achieved.

PUBLICATIONS

Log Attention – Assessing Software Releases with Attention-Based Log Anomaly Detection

Enhanced Drowsiness Detection Using Deep Learning: An fNIRS Study

Enhanced classification accuracy using deep learning for mental math: an fNIRS study

EDUCATION

Bachelor of Engineering in Mechatronics, Air University

2018

O & A Levels, Roots International School and Colleges

2014