Muhammad Umair imran

Data Scientist

Data Science student at FAST NUCES with a strong foundation in Python, data analysis, machine learning, deep learning, and model optimization. Proficient in SQL and experienced in developing impactful deep learning projects. Passionate about solving complex real-world problems through data-driven approaches and leveraging advanced data science techniques.

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EDUCATION

Bs-Data Science
FAST UNIVERSITY

08/2022 - Present

WORK EXPERIENCE

ML and Data Science Intern
Analyzinn Solutions

06/2025 - 08/2025

Achievements/Tasks

- Started as an intern.
- Developed Speech to Speech AI Chatbot (Backend Part using FAST API , Deep Gram Api, Groq Api Integration)
- Accomplished all tasks as an intern and got exceptional intern certificate.
- Completed all assigned tasks while simultaneously mentoring fellow interns, resolving queries, and guiding project development.

Company Website : *https://analyzinn.com/*

AI Developer
Tensorwave Solutions

03/2025 - 03/2025

Achievements/Tasks

- I did AI intergration to generate complement about customer using computer vision .
- Decreased Inference time by using image preprocessing techniques from 8 seconds to 2 seconds.
- Integrated Watsapp for AI Chat Feature.
- Integrated ai complement generation using computer vision using FAST API.

Deputy Softec (Team Conference)
Softec

01/2023 - 02/2023

Achievements/Tasks

- Lead a team of 4 persons.
- Managed Conference Schedules.
- I got Best Deputy award for this position.

Certifications
Courses/Internship

Certificates

- Advanced Learning Algorithms (Coursera)
- Analyzinn Solutions (Intenship Appreaciation Certificate)
- Analyzinn Solutions (Internship Completion Certificate)
- Convolutional Neural Networks in TensorFlow (Coursera)
- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning (Coursera)
- Neural Networks and Deep Learning (Coursera)
- Supervised Machine Learning: Regression and Classification (Coursera)

SKILLS

PANDAS | PYTHON | FAST API | FLASK | DOCKER | TENSORFLOW | DATA MINING | GIT/GITHUB | MACHINE LEARNING | DEEP LEARNING | NATURAL LANGUAGE PROCESSING

PERSONAL PROJECTS

Rag Based code explorer (04/2025 - Present)

- **Developed a semantic code search and analysis system** supporting multiple languages using CodeBERT for embeddings and ChromaDB for vector storage. **Enabled natural language querying** with a two-pass ranking engine (embedding similarity + keyword match) and Tree-sitter for multi-language parsing. **Built REST APIs with FastAPI** , supporting code indexing, search, and auto-description with efficient multi-threaded processing.

Personal Finances Analysis (04/2025 - Present)

- Developed a **machine learning-based** personal finance data analysis project using data mining and analytical techniques. Implemented clustering and regression algorithms to classify users into high, medium, and low spending categories.

FirePredictionAnalysis (03/2025 - 04/2025)

- **Research-Based Fire Prediction** (arXiv:2306.05144) – Implemented 5 ML models (RNN: 0.938, LSTM: 0.983 , Transformer: 0.958, BiLSTM: 0.968, DNN: 0.69) for time series classification . Grid search tuning improved LSTM precision from 0.9688 to 0.9766 . Used spatial fire data (64×64 region) and UNet for fire spread prediction .

Health Care Modelling Project (07/2024 - 09/2024)

- Time Series anlaysis on data scraped from WHO website. Performed data analysis and feature engineering using various techniques. Implemented **LSTM , ARIMA , SARIMA** for time series data modelling . Trained Regression models for predicition of **Obesity level , Smoking level , Alcohol consumption.** Implemented streamlit application for model testing and application development

Flask Based Web Application

- Threat Intelligence Web Application: Developed Web Application with inegration of OPEN VAULT OTX . Real Time Feed refresh feature implemented.Flask Based Backend . Bootsrap Based frontend . SQLITE for database was implemented.

RAG Based Leasing AI Chatbot

- Leasing AI Chatbot : Developed Rag based Ai chatbot for leasing documents using FAST API , Vector Database , Streamlit (For Frontend)

Weather Sense (Machine Learning Project For Weather Forcasting)

- The WeatherSense project analyzes large-scale US weather data (1991–2021) using PySpark for cleaning, EDA, and predicting precipitation and temperature trends to assess potential climate change. It employs **Multi-Linear Regression** as the main machine learning model for forecasting.