Muhammad Faizan Hassan

Data Science/MERN Stack

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SUMMARY

Passionate Software Engineer with a keen interest in Machine Learning, Artificial Intelligence, and Data Science. I'm dedicated to staying at the forefront of technological advancements in these fields, leveraging my expertise to create innovative solutions. Specializing in crafting elegant, effective code and designing robust applications.

SKILLS AND TOOLS

Programming: C, C++, Java, Python, JavaScript, dart

Python Libraries: Pandas, Numpy, Matplotlib, Seaborn, Sklearn, Tensorflow

Database: MySQL, MongoDB, Sqlite, Firebase

Front end: React, Flutter ,React Native

Back end: Node js, Express js Django, Flask , FastApi

Other Tools & IDEs: Git, Postman, XAMPP, Jupyter Notebook, Google Colab, VS code , Android Studio

EDUCATION

Bachelors of Software Engineering | University of Central Punjab (UCP) – Lahore 2020- Feb 2025

Punjab Group of College | ICS - Physics – Lahore 2018-2020

Beacon house School System | O-level – Lahore 2015-2018

PROJECTS

Final Year Project (FYP)

Comprehensive Doctor & Patient Platform with LLama Integration

- **Technologies & Tools:** Python, Django, LLama, TensorFlow/Keras, Payment Gateways
- **Description:**Created an all-in-one healthcare platform for doctor-patient interactions, including:
  - Intelligent query handling with LLama for FAQs and medical inquiries.
  - Appointment scheduling, patient history management, and payment processing.
  - Kidney Disease Analysis tool leveraging computer vision to detect stones, tumors, and cysts.
- **Key Achievements:**
  - Enhanced diagnostic accuracy and user experience through AI-driven insights.
  - Demonstrated robust system design and integration of machine learning models with web technologies.

Machine Learning

- **Stock Exchange Classification**: Classified market data using feature engineering and hyperparameter tuning for high accuracy and clear data visualization.
- **Loan Prediction**: Predicted loan approval statuses using applicant profiles, improving risk assessment and integrating a UI demo.
- **Boston Housing Prediction**: Built a regression model with regularization to estimate housing prices, providing actionable insights for real estate strategies.

Deep Learning

- **Cat-Dog Classification**: Utilized a CNN in TensorFlow/Keras, achieving high accuracy through architecture tuning and image augmentation.
- **Loan Prediction (ANN)**: Demonstrated robust classification and scalability for large financial datasets with minimal feature engineering.

React Restaurant Website: Created responsive, dynamic sites with reusable components for menu listings and reservation forms, optimizing performance and SEO.

AI OCR for Meter Reading: Automated meter reading extraction with YOLO v11 and EasyOCR, reducing manual data entry.

MyBlog: Next.js blogging platform featuring server-side rendering, dynamic routing, and streamlined content creation.

Flutter Task Management App: Cross-platform task manager with Firebase authentication, real-time syncing, and user-friendly UI.

Construction Site Safety: Computer vision system for monitoring safety compliance, detecting accidents, and controlling site access.

OCR System for Accountants: Streamlined transaction receipt data extraction into CSVs, enhancing accuracy and reducing manual effort.

ExploreDest: MERN-based travel platform with immersive user experiences, sustainability features, and brand storytelling.

LANGUAGES

English – Upper intermediate – Urdu

PROFILES

https://www.linkedin.com/in/muhammadfaizanhassan/

https://github.com/muhammadfaizanhassan/

https://www.kaggle.com/muhammadfaizanhassan