Abdul Jaweed

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Tadban, Hyderabad

PROFILE

I am a dedicated professional with a strong focus on Data Science and Machine Learning. My enthusiasm lies in unraveling valuable insights from complex datasets and crafting impactful models. With a cup of coffee in hand, I embark on the journey of transforming messy data into meaningful solutions. Drawing from a wealth of internship experiences, I bring a practical perspective to my work, enhancing my ability to create real-world solutions. Additionally, I am actively engaged in nurturing my startup, which centers around contributing to the AI community through open source initiatives.

SKILLS

Programming Language — Python, JavaScript, Java, C++, **Databases** — MySQL, MongoDB, **RestAPI** — Flask, FastAPI, **Machine Learning** — Supervised Learning and Unsupervised Learning, **Deep Learning** — (Tensorflow 2.0) ANN, CNN, RNN, **Natural Language Processing** — Classification, Name Entity Recognition, RNN, LSTM, GRU, **MLOps** — ML Pipeline, Docker, GitHub Actions, AWS, **Large Language Model** — Huggingface, LangChain Eco-System, OpenAI, Groq, Ollama, **Frontend:** — React Js, **Backend** — Node Js, Flask and FastAPI

MY PERSONAL PROJECTS TURN INTO OPEN SOURCE CONTRIBUTION

MLFAST

MLFAST its a python machine learning library is built on top of scikit-learn and provides a simple API for regression and classification modeling.
Tech Used: Python, Scikit-learn, CICD, Circle CI , Github Actions
- Designed to help new data enthusiasts implement regression and classification models easily..
- Built on top of Scikit-learn and features a simple API for complex algorithms with just 4 to 5 words of code.
- Future plans to include text and image preprocessing capabilities for NLP and CV tasks.
- Includes seamless deployment with popular CI/CD tools such as Circle CI and Github Actions.

FastAnalytics (Partially Open Source, soon fully Open Source)

FastAnalytics : its a python data analytics framework is built on top of pandas and provides a simple API for univariant, bivariant, multi variant and complete dashboard analysis.
- Tech Used: Python, Pandas, CICD, Circle CI , Github Actions
- Designed to help new data enthusiasts implement overall analysis in one line of code..
- Built on top of pandas and features a simple API for complex visualization dashboard with just 4 to 5 words of code.
- Future plans to include timeseries and stock analysis.
- Includes seamless deployment with popular CI/CD tools such as Circle CI and Github Actions.

Starry Chronicles (Open Source Soon)

Starry Chronicles is an innovative app designed to create personalized bedtime stories for children using the power of artificial intelligence. This enchanting app aims to foster a love for reading, listening, and imagination in kids by offering unique, tailored stories every night.

- Utilized cutting-edge AI technology to customize stories based on children's preferences, enhancing engagement.
- Implemented interactive elements allowing children to influence the story's direction, fostering creativity.
- Incorporated educational content in stories, promoting learning in language, math, science, and moral values.
- Designed soothing voice narration features to aid in creating a relaxing bedtime routine for kids.

Tech Stack Used
- Developed the frontend using React.js and the backend with Node.js, creating a seamless MERN stack application.
- Built AI functionalities using Python FastAPI and integrated open-source LLM models like LLaMA3 and Mistral to power the AI-driven storytelling.
- Employed DevOps practices to deploy the application on AWS and Azure, ensuring scalability, reliability, and performance.

💼 PROFESSIONAL EXPERIENCE

Capital Placement. AI Engineer Intern   11/2023 – 05/2024
United Kingdom

During my tenure at Capital Placement, I played a pivotal role within an AI team dedicated to refining candidate recommendations through advanced AI algorithms. This involved not only automating candidate selection processes based on job descriptions but also entailed preprocessing and cleansing extensive textual data. We utilized both OpenAI API and open-source models such as LLAMA3, Mistral, Phi3, and Gemma to train our AI systems effectively. Additionally, I led initiatives to enhance HR Tech by integrating Artificial Intelligence, developing APIs, and harnessing the power of Azure, with successful deployment on Azure Functions.

Margdarshan. Data Scientist Intern   06/2023 – 11/2023
India

- Developed a Generative Q&A Chatbot for Margdarshan.
- Utilized OpenAI API and HuggingFace API for implementation
- Successfully implemented Text Summarization using the HuggingFace model (facebook/bart-large-cnn) with CI/CD integration for automation.
- Collaborated with a cross-functional team to gather requirements and ensure alignment with project goals.
- Conducted thorough testing and refinement of the Generative Q&A Chatbot and Text Summarization solutions, ensuring optimal performance and user experience.

Innomatics Research Lab. Data Science Intern   02/2023 – 06/2023
Hyderabad, India
Project Name : Flipkart Laptop Price Prediction:

- Web Scrapping data from Flipkart website
- Developed and implemented a machine learning model to predict laptop prices on Flipkart, resulting in a 90% accuracy rate.
- Conducted data cleaning, feature engineering, and exploratory data analysis to prepare the dataset for modeling.
- Utilized algorithms such as Random Forest, XGBoost, and Support Vector Regression to build the model.

iNeuron. Project Intern   11/2022 – 08/2023
India
Project Name : Deep Authenticator

Problem statement is to design and Authentication system that can be installed places as where high securities and system should support faced based Authentications

Tech: Python, MongoDB, Fast-ApI, Docker, Azure Container Registry, Azure App Services, Terraform.

- Designed API's embeddings-based remote application for a client to provide permission-based access to restricted areas.
- Selected MTCNN for face detection and FaceNet for Embedding generation along with MongoDB as a feature store.
- Used Fast-API as an interface for the model and checked similarly using Cosine Similarity.
- Implemented CI/CD in monolithic architecture using GitHub actions and deployed the web application using Azure App services.

📚 COURSES

Machine Learning Specialization, *Deeplearning.ai from Coursera* 🔗   07/2022 – 10/2022

MLOps Specialization, *Duke University from Coursera* 🔗   06/2023 – 08/2023

🧩 ACHIEVEMENT

Machine Learning Hackathon 🔗   02/2023
Hyderabad, India

Achieved selection as a data science intern after successfully competing against over 7000 + participants in an ML hackathon and assessment test, ranking among the top 10 percent.

🎓 EDUCATION

B.Com (Computer & Appications), *Government Degree College Khairatabad*   06/2019 – 07/2022
Hyderabad, India

- **Cummulative CGPA : 7.82/ 10**