

SHAMAL MUSTHAFA

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PROFESSIONAL SUMMARY

Data Scientist with 1.2 years of experience in Generative AI, Large Language Models (LLM), and Cloud AI solutions. Skilled in developing conversational AI with Dialogflow, OpenAI, and Azure AI. Proficient in API development with FastAPI for scalable microservices, alongside ML, deep learning, and full-stack development.

WORK EXPERIENCE

Data Scientist

Truwave Software LLC, Madurai | Aug 2023 - Present

- Leveraged Azure AI and OpenAI to enable AI-driven customer solutions.
- Designed and deployed enterprise chatbots using Dialogflow CX, integrating Gemini and OpenAI for advanced AI.
- Developed APIs with FastAPI, custom middleware for Dialogflow conversation flows.
- Gained experience in ReactJS and NextJS by assisting the frontend team on project.

Data Analyst Intern

Truwave Software LLC, Madurai | Jan 2023 - Apr 2023

- Analyzed customer call data with OpenAI Whisper and LDA to derive actionable insights.
- Built expertise in Power BI, Alteryx and NLP.

PROJECTS

Chatbot Platform

Developed chatbot with Dialogflow & FastAPI; integrated backend for seamless data flow.

- Technologies: Dialogflow, FastAPI, Python, GCP

AI-Powered Chatbot Application

Built Generative AI chatbot using Azure OpenAI, Azure AI Search, FastAPI, and ReactJS.

- Technologies: Azure OpenAI, Azure AI Search, FastAPI, ReactJS

RAG Chatbot Assistant

Context-aware chatbot using Retrieval-Augmented Generation (RAG) with OpenAI & Gemini.

- Technologies: LangChain, Streamlit, FAISS, OpenAI, Gemini

AI Financial Advisor

Platform with financial insights using interactive visualizations and AI-based recommendations.

- Technologies: Streamlit, OpenAI, Gemini, Plotly, Pandas

Indian Stock Market Analysis Dashboard

Real-time stock analysis with ML forecasts, including LSTM models.

- Technologies: Python, TensorFlow, Streamlit, LSTM, Plotly

Sentiment Analysis Dashboard

Real-time sentiment analysis tool with visualizations and word clouds.

- Technologies: Streamlit, TextBlob, NLTK, Plotly, WordCloud, NewsAPI

Call Center Data Analytics Dashboard

Transcribed and analyzed call data, visualized in Power BI.

- Technologies: Python, NLP, Power BI, Alteryx

Breast Cancer Detection Using Machine Learning

Developed a deep learning classification model using Sequential Neural Networks to predict breast cancer malignancy. Features include automated hospital recommendations based on predictions and an intuitive interface for medical image analysis.

- Technologies: Python, scikit-learn, Streamlit, Pandas, Keras

EDUCATION

Master of Science in Data Science

CHRIST (Deemed to be University), Pune Lavasa Campus | 2021 - 2023

Bachelor of Computer Applications

Kannur University | 2017 - 2020

SKILLS

- AI & ML: Machine Learning, Deep Learning, NLP, Generative AI, TensorFlow, PyTorch
- Cloud & Tools: Azure AI, OpenAI, Dialogflow CX, AWS Bedrock, Google Gemini, Vertex AI, LangChain
- Programming: Python, FastAPI, SQL, JavaScript, Java, R
- Web Development: ReactJS, NextJS, Django
- Data Analysis: Pandas, NumPy, Scikit-Learn, OpenCV
- Visualization: Power BI, Alteryx