

## SHAMAL MUSTHAFA

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### PROFESSIONAL SUMMARY

Data Scientist with 1.5 years of experience specializing in Generative AI, Large Language Models (LLM), and Cloud AI solutions. Skilled in developing conversational AI using Dialogflow, OpenAI, and Azure AI, and proficient in creating scalable RESTful APIs with FastAPI. Adept in machine learning, deep learning, and full-stack development, with hands-on experience in frontend projects using NextJS and ReactJS.

### 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 projects.

#### 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

## **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, FastAPI
- Data Analysis: Pandas, NumPy, Scikit-Learn, Alteryx
- Visualization: Power BI