

# Shamal Musthafa

Data Scientist | Generative AI & Business Intelligence

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## PROFESSIONAL SUMMARY

**Data Scientist** with **2+ years experience** delivering **end-to-end data solutions**. Core competencies include automating complex data workflows with **Alteryx Designer**, developing advanced **Generative AI** and **LLM applications** using **Python**, and translating data into actionable insights through dynamic visualizations in **Tableau** and **Power BI**.

## PROFESSIONAL EXPERIENCE

### Data Scientist

Truwave Software LLC, Madurai

August 2023 - Present

- Led **end-to-end development** of enterprise **AI solutions** using **Azure AI** and **OpenAI**
- Engineered automated data preparation workflows with **Alteryx**, reducing processing time by **30%**
- Developed interactive dashboards in **Tableau** and **Power BI** for business KPIs and stakeholder insights
- Built enterprise **chatbots** using **Dialogflow CX** with **Gemini** and **OpenAI** models
- Implemented **RAG-based solutions** with **Azure OpenAI** for enhanced accuracy
- Designed scalable **RESTful APIs** using **FastAPI** for high-volume conversations
- Created intelligent search systems using **Azure OpenAI** for context-aware information retrieval
- Collaborated with **frontend teams** on **ReactJS** projects providing development support

### Data Analyst Intern

Truwave Software LLC, Madurai

January 2023 - April 2023

- Utilized **Alteryx Designer** for comprehensive **data cleansing** and analysis of customer call data
- Built **Power BI dashboards** identifying performance trends and satisfaction metrics
- Analyzed call transcripts using **OpenAI Whisper** and **NLP techniques**

## FEATURED PROJECTS

### AI-Powered Customer Churn Predictor

**End-to-end ML solution** achieving **84.6% ROC AUC** with advanced **feature engineering** and **full-stack deployment**.

Tech: **Python, XGBoost, React, FastAPI, Vercel**

GitHub: [github.com/Shamal119/ai-powered-customer-churn-predictor](https://github.com/Shamal119/ai-powered-customer-churn-predictor)

### RAG Chatbot Assistant

**Context-aware chatbot** using **RAG** with **OpenAI & Gemini** for accurate responses.

Tech: **RAG, OpenAI, Gemini, Python**

### AI Financial Advisor

Platform for **financial insights** with **AI-driven recommendations** and visualizations.

Tech: **Python, Plotly, Machine Learning**

### Portfolio Website

**Modern portfolio website** showcasing projects and skills with **interactive UI** and **responsive design**.

Tech: **React, TypeScript, Material-UI, Vite**

GitHub: [github.com/Shamal119/portfolio](https://github.com/Shamal119/portfolio)

## TECHNICAL SKILLS

### Cloud & AI Tools:

**Azure AI, OpenAI, GCP, Dialogflow CX, Gemini, Vertex AI, Vercel**

### AI & Machine Learning:

**Generative AI, LLMs, NLP, RAG, LangChain, TensorFlow, XGBoost**

### BI & Visualization:

**Alteryx Designer, Tableau, Power BI, Matplotlib, Plotly**

### Programming:

**Python, FastAPI, SQL, JavaScript, ReactJS**

### Data Tools:

**Pandas, NumPy, FAISS, Scikit-Learn**

## EDUCATION

### Master of Science in Data Science

CHRIST (Deemed to be University)

2021 - 2023

### Bachelor of Computer Applications

Kannur University

2017 - 2020

## ADDITIONAL PROJECTS

### Call Center Analytics Dashboard

**Power BI dashboard** with **Alteryx data preparation** for call analysis.

Tech: **Power BI, Alteryx, NLP**

## CERTIFICATIONS

- Alteryx Designer Core Certified**
- Alteryx Foundational Micro-Credential**
- Modern NLP using Deep Learning (Udemy)**
- Fundamental AI Concepts (Microsoft)**