

# Anadi Shishir

AI & Machine Learning Engineer

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## Professional Summary

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- Built and deployed four end-to-end AI/ML applications spanning Retrieval-Augmented Generation (RAG), NLP, Time-Series Forecasting, and Customer Analytics.
- Experienced in developing cloud-native AI applications using FastAPI, Supabase (PostgreSQL + pgvector), Google Gemini, and Streamlit with secure authentication and scalable architectures.
- Proficient in Machine Learning, Deep Learning, Generative AI, backend development, and deployment using Docker, Render, and Vercel.

## Technical Skills

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**Languages:** Python, C++, SQL, HTML, CSS, JavaScript

**AI/ML:** Scikit-learn, TensorFlow, PyTorch, XGBoost, Retrieval-Augmented Generation (RAG), Google Gemini

**Backend:** FastAPI, Streamlit

**Databases:** PostgreSQL, Supabase, pgvector

**Tools & Platforms:** Git, GitHub, Docker, Linux, Render, Vercel

## Projects

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### Financial RAG Assistant

[GitHub](#) | [Live Demo](#)

*FastAPI • Streamlit • Supabase • PostgreSQL • pgvector • Gemini • JWT*

- Engineered a cloud-native Retrieval-Augmented Generation (RAG) platform using FastAPI, Supabase (PostgreSQL + pgvector), and Google Gemini for secure financial document analysis.
- Implemented metadata-filtered retrieval, JWT-based authentication, and persistent conversational memory to deliver secure, context-aware multi-session interactions.

### Market Sentiment Intelligence Platform

[GitHub](#) | [Live Demo](#)

*Python • FinBERT • Gemini • SHAP • Streamlit • Docker*

- Built an end-to-end financial news intelligence pipeline combining FinBERT sentiment analysis with Gemini-generated market insights.
- Integrated SHAP explainability and a modular architecture for transparent predictions and scalable deployment.

### Flight Demand Forecasting Platform

[GitHub](#) | [Live Demo](#)

*FastAPI • Streamlit • Random Forest • SHAP • Gemini*

- Developed a time-series forecasting platform to predict airline demand using Random Forest and SHAP explainability.
- Deployed independent FastAPI and Streamlit services on Render with Gemini-powered business insight generation.

### Customer Retention Analytics System

[GitHub](#) | [Live Demo](#)

*FastAPI • Streamlit • XGBoost • Scikit-learn • SMOTE*

- Designed an end-to-end customer churn prediction pipeline with feature engineering, SMOTE, and XGBoost for improved predictive performance.
- Developed a deployment-ready FastAPI backend with a Streamlit interface for real-time churn risk prediction.

## Education

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### Harcourt Butler Technical University, Kanpur

Bachelor of Technology in Electronics Engineering

CGPA: 8.485 — 2027

## Certifications

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- NPTEL – Introduction to Machine Learning (Elite)
- NPTEL – Data Structure and Algorithm Using Python (Elite + Silver)
- NPTEL – Artificial Intelligence : Search Methods for Problem Solving