Suprovo Mallick

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LinkedIn — GitHub
Portfolio: dyno-suprovo-github-io.vercel.app

Education

Kalinga Institute of Industrial Technology (KIIT) Jul 2023 – Jul 2027
Bachelor of Technology (B.Tech), Computer Science

Kalyani Central Model School (KCMS) 2021 – 2023
Higher Secondary Certificate (HSC)

Julien Day School (JDS) 2011 – 2021
Secondary School Certificate (SSC)

Projects

AI Expense Advisor (India Edition) — Streamlit App
Streamlit, Gemini API, LangChain, Hugging Face, RAG
- Built a budgeting assistant that generates sarcastic financial advice based on user input
- Integrated sliders, charts, sentence transformers, and FAQ matcher using embeddings
- GitHub: github.com/DYNOSuprovo/NLTK-EXP

Aahar AI – Diet & Health Recommendation System — Firebase App
FastAPI, Flutter, Gemini, ChromaDB, Hugging Face
- AI-powered diet assistant that parses and embeds PDF-based diet plans
- Provides contextual responses using RetrievalQA and location/medical metadata
- Backend hosted via FastAPI, frontend built using Flutter

Hindu Scripture Q&A App — Streamlit App
FastAPI, Flutter, LangChain, Gemini, ChromaDB
- Built a cross-platform RAG-based assistant that answers questions from Hindu scriptures
- Chunked scripture PDFs embedded into vector DB for context-aware responses
- LAN-exposed backend with memory for multi-turn queries

ProblemSolverQP — Streamlit App
- Automated tool that parses academic question papers and generates model answers
- Utilizes regex, language modeling, and pattern recognition

Churn Prediction Model
- Real-time user churn predictor using TensorFlow and scikit-learn
- Built an end-to-end ML pipeline with feature scaling and live input inference

Car Price Prediction
- Trained regression models on car datasets using NumPy, Pandas, and scikit-learn
- Included EDA, hyperparameter tuning, and model evaluation

Diabetes Prediction Model
- Classification pipeline using real medical data
- Used StandardScaler and logistic regression/random forest classifiers

Technical Skills

Languages: Python, Java, C, C++, Dart
Libraries & Frameworks: TensorFlow, scikit-learn, NumPy, Pandas, Matplotlib, LangChain, Streamlit, FastAPI, Hugging Face, Sentence Transformers
GenAI Tools: Gemini API, ChromaDB, FAISS, Ollama
Dev Tools & Platforms: Git, Docker, Firebase, Google Colab, Jupyter, VS Code, Flutter, Figma, Fusion 360, SolidWorks
Soft Skills: Problem Solving, Technical Communication, Teamwork, Adaptability, Time Management, Mobile Editing, Creative Photography

Experience

AI Chatbot & GenAI App Developer – Fed Society 2024 – Present

• Developed a personalized chatbot using Gemini API for student community engagement
• Created and deployed **Aahar AI**, an AI-powered diet assistant for the Fed Society's micro-startup initiative
• Designed a RAG-based pipeline using LangChain, Gemini API, and ChromaDB to deliver contextual diet recommendations
• Integrated medical history parsing, PDF chunking, and vector embedding for RetrievalQA
• Built a modular FastAPI backend and Flutter-based frontend, hosted on Firebase for cross-platform deployment

Certifications

• Supervised ML: Regression and Classification — DeepLearning.AI (May 2024)
• Career Essentials in Generative AI — Microsoft + LinkedIn (Jul 2024)
• Digital Skills: Artificial Intelligence — Accenture (Jul 2024)
• Google AI Essentials — Google (Jul 2024)
• Intro to Large Language Models — Google Cloud (Jul 2024)