

# SUPROVO MALLICK

SHANTINAGAR, MADANPUR, NADIA, WEST BENGAL

supromallick3@gmail.com | 8276028272 | linkedin.com/in/suprovo-mallick | github.com/DYNOSuprovo

## EDUCATION

### KIIT - Kalinga Institute of Industrial Technology

July 2023 – July 2027

Bachelor's Degree in Computer Science

### KCMS - Kalyani Central Model School

2021 – 2023

Higher Secondary Certificate (HSC)

### JDS - Julien Day School

2011 – 2021

Secondary School Certificate (SSC)

## PROJECTS

### GenAI / LLM / RAG Projects

#### AI Expense Advisor (India Edition)

- Budgeting app using **Streamlit** and **Gemini API** that generates sarcastic GenAI advice.
- Integrated **LangChain**, **Hugging Face Embeddings**, **Sentence Transformers**, **RAG**.
- Includes sliders, pie charts, FAQ matcher.
- GitHub: [github.com/DYNOSuprovo/NLTK-EXP](https://github.com/DYNOSuprovo/NLTK-EXP)

#### RAG-based Diet Advisor (Gemini + ChromaDB)

- GenAI assistant using **LangChain**, **Gemini API**, **ChromaDB**, **Hugging Face**.
- Parses PDFs, chunks documents, creates embeddings, and answers via **RetrievalQA**.

#### Hindu Scripture Q&A App (Flutter + FastAPI + Gemini)

2025 – Ongoing

- Cross-platform RAG-based assistant answering queries from Hindu scriptures.
- **Flutter** frontend, **FastAPI** backend with **Gemini**, **LangChain**, **ChromaDB**, **Hugging Face**.
- Chunked PDF scripture input, embedded and queried via **RetrievalQA**, exposed backend over LAN.

#### ProblemSolverQP

- Python automation tool to parse academic question papers and generate solutions.
- GitHub: [github.com/DYNOSuprovo/ProblemSolverQP](https://github.com/DYNOSuprovo/ProblemSolverQP)

### ML Projects

#### Churn Prediction App

- Real-time churn predictor using **TensorFlow**, **scikit-learn**, **Streamlit**.
- Built and deployed deep learning model with user-friendly interface.

#### Car Price Prediction

- Full ML pipeline using **NumPy**, **Pandas**, **Matplotlib**, **scikit-learn**.
- Included EDA, regression modeling, hyperparameter tuning.

#### Diabetes Prediction Model

- Classification model using **StandardScaler** and medical datasets.

## TECHNICAL SKILLS

#### Languages:

- Python, Java, C, C++, Dart

#### Libraries / Frameworks:

- TensorFlow, PySpark, scikit-learn
- NumPy, Pandas, Matplotlib
- LangChain, Hugging Face Transformers

- Flask, FAISS, Sentence Transformers

#### Tools & Platforms:

- Streamlit, Gemini API, ChromaDB
- Ollama, Docker, Git, GitHub
- VS Code, Jupyter Lab, Google Colab
- Fusion 360, Figma, SolidWorks, FastAPI, Flutter

## EXPERIENCE

---

### **AI Chatbot Developer – Fed Society**

*2024*

- Designed and deployed a personalized chatbot using Gemini API for internal communications.

### **Coding Practice**

- Solved **150+** problems on **LeetCode**

- **5-star** coder on **HackerRank**

## SOFT SKILLS

---

Problem Solving, Technical Communication, Teamwork, Creative Thinking

Time Management, Adaptability, Cross-functional Collaboration

Creative Photography, Mobile Editing

## CERTIFICATES

---

**Supervised ML: Regression and Classification** – DeepLearning.AI, Stanford

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