KATHIRVEL M
AI/ML / PROMPT ENGINEER
https://kathirprotfolio.netlify.app/

CONTACT

- +91 90256 66734
- kathirvelmurugesan1@gmail.com
- Rasipuram,Namakkal-636202
- https://linkedin.com/in/kathirvel-m
- kathirvelmurugesan1@gmail.com

EDUCATION

Knowledge Institute of Technology(KIOT)
B.Tech – Information Technology - (2022 – 2026)
Current CGPA: 7.1 / 10

Government Higher Secondary School
HSC - (2021 – 2022)
12th Percentage: 63.3%

Government Higher Secondary School
SSLC - (2019 – 2020)
10th Percentage: 45%

SKILLS

- Python
- Datascience
- Machine Learning
- Deep Learning ,LLM,RAG
- NLP
- Python Frameworks-FastApi,Flask
- Linux basics
- Docker
- Mlops(AWS,EC2/VM,RDS,S3, MachineLearning services (Sagemaker)
- React basics

ACHIEVEMENTS

Hackathons:

- 2nd Prize at Jai Sri Ram College with a cash prize of ₹2000-(Sales Forecasting)
- Top 5 at Alliance University with a cash prize of ₹5000-(Goal traching)
- Top 10 at Dr. AIT – (Fintech)
- Top 13 at Reva University – (Gamethon)

Paper Publication at international Journals (IJSAT)-ID(IJSAT25037170)

- Research Paper: Cluster-Aware Multimodal Transformer System – Proposed a scalable distributed architecture for multimodal AI (text, image, audio), achieving higher accuracy and lower latency than traditional transformers.

Extracurricular Activities

- NSS volunteer
- Rotaract club volunteer

PROFILE SUMMARY

AI and Prompt Engineer skilled in machine learning, deep learning, and web development. Experienced in building scalable AI applications with Python, TensorFlow, PyTorch, React, and Proficient in MLOps, cloud platforms (AWS—RDS, S3, EC2/VM, SageMaker), and deploying NLP, computer vision, and generative AI models. Strong expertise in backend AI pipelines, real-time analytics, chatbots, recommendation engines, and intelligent dashboards.

INTERNSHIP

Skillvertex   05. 02. 2024 - 05. 03. 2024

DataScience & Machine Learning

in a Intern with hands-on experience in analyzing complex datasets, building predictive models, and delivering actionable insights to support data-driven decision-making. Proficient in leveraging data analysis tools and machine learning techniques to solve real-world problems.

Prodigy infotech   15. 04. 2024 - 15. 05. 2024

Data Science

- In a datascience intern is are predict to the stock prediction and involve some project and to Gained practical experience in data wrangling, cleaning, and preprocessing to ensure the integrity of datasets.
- Worked on designing and implementing machine learning models using tools like Python and Scikit-learn.
- Developed insightful data visualizations with Matplotlib, Seaborn,

Codsoft   15. 05. 2024 - 15. 06. 2024

Python Programming

problem-solving techniques.Worked extensively with libraries such as Pandas, NumPy, Matplotlib, Seaborn, and OpenPyXL for data analysis and visualization.

PROJECT

- AI Chatbots(using tech - Python, FastAPI, PyTorch, Hugging Face, NLTK, Regex, TextBlob, Wikipedia API, YouTube Transcript API, LangChain, SpeechRecognition, gTTS/pyttsx3, CLIP/BLIP, FAISS/ChromaDB, Telegram Bot API, Twilio, Docker.)

- AI Image Generator(Built a Text-to-Image Generator using React + Axios (Frontend), Flask + Diffusers + PyTorch (Backend), Stable Diffusion Img to Img Model)

- Semantic Search Engine(Python, Sentence-BERT, FAISS/Pinecone, FastAPI, React, Elasticsearch)

- Text Summarization Pipeline(Python, Hugging Face Transformers (BART/T5), Flask API, React,Nlp)

- AI-Integrated Analytical Dashboard(Python,LLM, NLP (TF-IDF/BERT), Scikit-learn, Flask, React, Chart.js, AWS S3 & RDS)

- Diabetes Prediction based on Health Conditions(Developed a machine learning model to predict diabetes risk from patient health parameters for early diagnosis.Tech Used: Python, Scikit-learn, Pandas, Flask API, React, AWS EC2/VM,RDS)

- Textile Sales Prediction / Retail Sales Forecasting(Implemented demand forecasting models to optimize sales and inventory management in the retail sector. usingTech Used: Python, XGBoost, ARIMA/Prophet, Flask, React, PostgreSQL,)

- Stock Price Prediction Dashboard(Built an AI-powered dashboard for stock market trend forecasting with real-time analytics and visualization.Tech Used: Python, LSTMs, Prophet, Scikit-learn, Flask, React, Recharts, AWS RDS)