

Yugeshkaran P

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<https://github.com/YUGESHKARAN>

<https://my-portfolio-eta-three-28.vercel.app>

Objective

As an AI enthusiast, focusing on producing inventions that address real-time problems to contribute for the growth and success of your esteemed organization.

Education

Bachelor of Technology | Artificial Intelligence & Data Science

2021 - 2025

Dhanalakshmi Srinivasan University , Trichy

C.G.P.A - 9.21

Computer Science | Class XII

Aug 2021

SaiVidhyalaya (C.B.S.E) , Trichy

Percentage - 92%

Class X

May 2019

SaiVidhyalaya (C.B.S.E) , Trichy

Percentage - 70%

Projects

- **AI Product Control Agent | GenAI-** AI powered application to automate and simplify CRUD operations on product website, leveraging the latest in AI to streamline workflows and supercharge productivity. With advanced analysis capabilities, it helps you make better decisions, faster. [GithubLink](#)
Technology Stack Used - LLM llama-3.1-8b-instant | Flask | Langchain | SerpAPI | MongoDB | React js | Nodejs | Express.js | TailwindCSS | JWT-Auth
- **Pinecone Q&A document retrieval | GenAI-** Created a Natural Language Processing LLM chatbot using Pinecone vector database and Huggingface. It can easily summarize the documents for research analysis use cases and also can be used for content extraction. [GithubLink](#)
Technology Stack Used - LLM mixtral-8x7b-32768 | embedding model - sentence-transformers/all-MiniLM-L6-v2 | Flask | pinecone VectorDB
- **Mini Language Model | Deep Learning** - Developed a mini language model built from scratch using PyTorch, fine-tuned on a supervised custom Clash of Clans dataset. The model contains ~2.96 million trainable parameters and is designed for NLP tasks related to Clash of Clans heroes, defenses, and troops. [GithubLink](#)
Technology Stack Used - Python 3.12.4 | Flask | Transformers | PyTorch
- **Health Insurance Prediction & House Price Prediction | Machine Learning-** Developed a prediction model for finding the price for health insurance and housing based on historical data by using randomforest regression algorithm. [GitubLink](#)
Technology Stack Used - pandas | numpy | matplotlib | scikit-learn | seaborn
- **MySQL RAG System | GenAI-** Developed a retrieval augmented generator system using LLMs (Large Language Models) to make analysis on MySQL database. Need of this application is to enhance the productivity of industries and organizations who are dealing with huge volume of data. [GithubLink](#)
Technology Stack Used - LLM llama-3.1-8b-instant | Flask | Langchain | Groq api | MySQL Server | React js

- **Blog Browser E-Learning Platform | Web Application** - Developed a app for building communities to share tech blogs and posts. It helps students and developers to exchange their tech skills and knowledge among each others. [GithubLink](#)
Technology Stack Used - Nodejs | Express.js | React.js | Tailwind CSS | socket.io | MongoDB | Deployment Platform - Vercel | AWS - S3 bucket
- **Attendance Software | Web Application** - Developed a attendance software to address the issue of handling large volume of students records by implement search-mark functionality. It helps faculties to reduce the effort and time. [GithubLink](#)
Technology Stack Used - php | MySQL server | XAMPP | HTML | CSS | Java Script
- **Mentor Consulting Crew AI | GenAI** - An AI-powered project built with a crew of three specialized AI agents, designed to research, build, and strategize comprehensive learning paths for any course—from beginner to advanced level. [GithubLink](#)
Technology Stack Used - crewai | ScrapeWebsiteTool | SerperDevTool | LLM gemini/gemini-2.0-flash

Skills Set

Technical Skills : Hands on experience in

- **Software Tools** - Visual Studio - code editor | Git & GitHub - version control | Docker - containerization and shipping code | Dialogue Flow - create NLP chatbot .
- **Data Science Packages / Frameworks** - Pytorch | Langchain | Langsmith | Pandas | Matplotlib | Scikit-Learn | Numpy
- **Backend Packages / Frameworks** - Flask | Node.js | Socket.io | Express.js | mongoose | dynamoose | mysql-connector-python
- **Frontend Packages / Frameworks** - React Vite | Tailwind CSS | axios
- **Databases**- MySQL | MongoDB | DynamoDB | Pinecone
- **Deployment Services** - Vercel | Render | Amazon Web Services
- **AWS Cloud Services** - S3 bucket | Amplify | IAM | Elastic Container Service | Elastic Container Registry | lambda.

Soft Skills : Effective Communication, Critical Thinking, Leadership and Problem Solving.

Certifications

Courses - Python for Data Science, Data Analysis with Python, SQL and Relational Databases 101, Data Visualization using python.

Workshops - Prompt Engineering. | Fundamentals of Automation using Embedded System | Barclays LifeSkills Programme

Conference - Paper presented in International Conference on Innovations and Applications of Artificial Intelligence in Engineering and Agriculture -ICIAAIEA 24 on the title of Attendance Management and Analysis system using LLM.

Internships

Web Development | **Online** at Quantum Sharq Innovative Solutions - **Paid**

Data Science Internship | **Online** at CompWallah IT Industry.