

UPASHAK GAYEN



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OBJECTIVE :

AI/ML Engineer specializing in Generative AI, RAG pipelines, and Agentic AI with hands-on experience building end-to-end machine learning solutions, from data ingestion to deployment. Skilled in LLM applications, NLP, and multi-agent systems, with a proven track record of developing scalable, production-ready AI solutions. Passionate about applying AI to solve real-world problems and driving measurable business impact.

SKILLS

- **Programming & Data:** Python ,JavaScript ,C ,SQL ,NoSQL (MongoDB, MySQL)
- **Machine Learning & Deep Learning:** PyTorch, TensorFlow ,Keras ,Scikit-learn ,OpenAI API ,Hugging Face Transformers ,Diffusion ,Pydantic, Kafka
- **Generative AI & Agentic AI:** Knowledge of LLMs, RAG, multi-agent orchestration, prompt engineering, diffusion models, CrewAI, Pinecone, Weaviate, Fine-tuning an LLM, AutoGen, LangChain, LangGraph, Haystack, LangSmith
- **Data Processing & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, NLTK, WordCloud
- **Deployment:** Docker ,Kubernetes ,Azure(Basic),AWS ,FastAPI , MLflow, Kubeflow, Flask
- **Frameworks & Tools:**Git, GitHub, Visual Studio Code, Next.js, Node.js, React.js, Streamlit, Gradio
- **Soft Skills:**Problem-solving, leadership, communication, cross-functional collaboration
- **MCP:** knowledge of MCP

PROFESSIONAL EXPERIENCE

- AI/ML INTERN – INTERNSELITE**
 - AI/ML Intern – InternsElite | Jan 2025 – Mar 2025
 - ·Developed NLP-based sentiment analysis models using NLTK, WordNetLemmatizer, and SentimentIntensityAnalyzer, achieving 85% classification accuracy.
 - ·Built recommendation systems leveraging collaborative filtering and hybrid approaches.
 - ·Automated preprocessing workflows using Python scripts, reducing pipeline time by 30%.
- FULLSTACK INTERN – CODEALPHA (NOV 2024 – DEC 2024)**
 - Developed full-stack web apps using MERN stack using Socket I.O. and all.Collaborated on a team project

PROJECTS

- GENAI:**
 - **VECTOR DB and RAG:** Built a vector database system integrated with GenAI for similarity search.I have used Pinecone.([GitHub](#): https://github.com/Upashak653/vectorDB_GenAI)
 - **IMDB Sentiment Analysis with Fine-tuned DistilBERT** :Fine-tuned DistilBERT model on IMDB subset for sentiment classification, achieving 69% validation accuracy with resource-optimized 3-epoch training. Implemented efficient training pipeline using Hugging Face Transformers.
([GitHub](#): https://github.com/Upashak653/FineTune_using_HuggingFace_models)
 - **AI_CREATOR (March(2024) - April(2024))** : A full-stack GenAI-powered SaaS platform for content and code generation using Gemini API. Next JS, Express JS, Node JS, Tailwind CSS | API used | GenAI | ([GitHub](#): <https://github.com/Upashak653/ai-content-generator>)
- AGENTIC AI:**
 - **Autonomous Web Agent for Real-Time Research:**Developed LLM-powered agent for browsing, extracting, and summarizing live web content with context-aware prompt engineering.
([GitHub](#): https://github.com/Upashak653/Autonomous_Web_Agent_and_Real_Time_Research)
 - **Agentic_AI:**Developed an AI-based stock recommendation system using CrewAI with four specialized agents for market analysis, company insights.The system intelligently suggests buy, hold, or sell actions based on real-time data and financial indicators.([GitHub](#): https://github.com/Upashak653/Agentic_AI)
- AI/ML(MACHINE LEARNING):**
 - **Mental Health Chatbot(DEEP LEARNING):** ([GitHub](#): https://github.com/Upashak653/Mental_health_chatbot)

EDUCATION

- **BACHELOR OF COMPUTER SCIENCE AND ENGINEERING:**
Government College of Engineering and Leather Technology.(**CGPA:8/10**) (2022-Present)

CERTIFICATES AND INTERSHIPS

LINK:([Drive](#))