

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, LangChain, LangGraph, Haystack
- **Generative AI & Agentic AI:** LLM fine-tuning, RAG, multi-agent orchestration, prompt engineering, diffusion models, CrewAI, Pinecone, Weaviate
- **Data Processing & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, NLTK, WordCloud
- **MLOps & Deployment:** Docker, Kubernetes, FastAPI, Flask
- **Frameworks & Tools:** Git, GitHub, Visual Studio Code, Next.js, Node.js, React.js
- **Soft Skills:** Problem-solving, leadership, communication, cross-functional collaboration

PROFESSIONAL EXPERIENCE

AI/ML INTERN – INTERNSELITE (JAN 2025 – MARCH 2025)

- 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](#): ([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 INTERNSHIPS

LINK:([Drive](#))