UPASHAK GAYEN

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• Portfolio: Link

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 ,PySpark
- **Generative AI & Agentic AI**: Knowledge of LLMs, RAG, multi-agent orchestration, prompt engineering, diffusion models, CrewAI, Pinecone, Weaviate, Fine-tunning an LLM, AutoGen, LangChain, LangGraph, Haystack, LangSmith
- **Data Processing & Visualization**: Pandas, NumPy, Matplotlib, Seaborn, NLTK, WordCloud
- **Deployment:** Docker ,Kubernetes(Basic) ,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 | 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%.

AI SPECIALIST INTERN – PLATINUM CONSULTING AND IT SOLUTION | SEPT 2025 – PRESENT

- Developed s3 buckets for multitenancy architecture using a lambda function.
- Created a knowledgebase using pinecone and s3 data for the AI agent.
- Helped to Optimize AI Agent Belden using aws flows builder and lex in aws bedrock agent.

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.
(**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)**
- *12TH PERCENTAGE : 81%*
  (2020-2022)
- *10TH PERCENTAGE : 85%*
  (2012-2020)

CERTIFICATES AND INTERNSHIPS   LINK:(Drive)