Upashak Gayen

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LinkedIn   Portfolio

OBJECTIVE

AI/ML Engineering student specializing in Generative AI, RAG pipelines, and Agentic AI with hands-on experience building end-to-end machine learning systems. Strong background in NLP, multi-agent orchestration, and cloud deployment.

TECHNICAL SKILLS

- **Programming**: Python, Java, C, JavaScript, SQL, NoSQL (MongoDB, MySQL), Data Structures and Algorithms

- **Machine Learning & DL**: PyTorch, TensorFlow, Keras, Scikit-learn, Hugging Face, Diffusion Models, PySpark

- **GenAI & Agentic AI**: LLMs, RAG, Prompt Engineering, CrewAI, LangChain, LangGraph, AutoGen

- **Vector Databases**: Pinecone, Weaviate

- **Data Processing**: Pandas, NumPy, Matplotlib, Seaborn, NLTK, WordCloud

- **Deployment**: AWS, FastAPI, Docker, Kubernetes (Basic), MLflow, Flask, Azure (Basic)

- **Frameworks & Tools**: Git, GitHub, VS Code, Next.js, Node.js, React.js, Streamlit, Gradio

- **Automation**: make.com, MCP (Model Context Protocol)

INTERNSHIP EXPERIENCE

- **AI/ML Intern – Internselite**   Remote
  AI/ML Intern   *Jan 2025 – Mar 2025*
  - **NLP Systems**: Built sentiment analysis models using NLTK and VADER achieving 85% accuracy
  - **Recommendation Systems**: Implemented collaborative and hybrid recommender systems
  - **Evaluation**: Conducted model validation and performance tuning

- **AI Specialist Intern – Platinum Consulting & IT Solution**   Remote
  AI Specialist Intern   *Sept 2025 – Present*
  - **Cloud Architecture**: Designed multi-tenant S3 storage using AWS Lambda
  - **KnowledgeBase**: Created multiple Knoledgeb Bases for GenAI using Lambda
  - **RAG Pipelines**: Optimized Belden AI agent using Flows, Lex, and Bedrock
  - **Prompt Management**: Implemented prompt tracking and agent routing
  - **Multi-Agent Systems**: Delivered a scalable multi-agent platform on AWS

PROJECTS

- **AI_CREATOR (GenAI SaaS)**: Built a full-stack Generative AI SaaS platform for content and code generation using Gemini API. Tech: Next.js, Node.js, Express, Tailwind CSS.
  GitHub

- **Agentic AI Stock Recommendation System**: Designed a CrewAI-based multi-agent system for market analysis and stock recommendations. Implemented buy/hold/sell logic using real-time indicators. GitHub

- **Startup Recommendation System (Agentic AI)**: Developed an LLM-powered agent to analyze, summarize, and recommend startup plans based on market context. GitHub

- **Mental Health Chatbot (Deep Learning)**: Built a deep learning-based conversational AI for mental health support using NLP techniques. GitHub

- **Automated Daily Study Report System (Automation)**: Automated daily study tracking, analytics, and report generation using Python. GitHub

- **Automate_DS (Deep Learning Automation)**: Created an end-to-end platform to automate data preprocessing, model training, and evaluation. GitHub

EDUCATION

- **Government College of Engineering and Leather Technology**   Kolkata, India
  B.Tech in Computer Science and Engineering — CGPA: 8.0/10   *2022 – Present*

- **Higher Secondary (12th)**   West Bengal Board
  Percentage: 81%   *2020 – 2022*

- **Secondary (10th)**   West Bengal Board
  Percentage: 85%   *2012 – 2020*

CERTIFICATIONS

- Certificates available at: Google Drive