Muskan Gupta

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Education

Jaypee Institute of Information Technology   Sept 2020 – June 2024
B. Tech in Electronics and Communication Engineering
- Outstanding Performer Award-Batch 2024 for heading the Robotics Hub, JIIT as Technical and Team Lead.

Technical Skills

Python, Machine Learning, Deep Learning, PyTorch, OpenAI, LLMs, Prompt Engineering, RAG, LangChain, LangGraph, ADK, MCP, SQL, Postgres, C++, TensorFlow, scikit-learn, Keras, Pandas, NumPy, Selenium, BS4, OpenCV, Flask, Django, FastAPI, Docker, AWS, Kubernetes, Kibana, Git, VS Code, Tinkercad, Arduino

Experience

Graduate Machine Learning Engineer , HyperVerge – Bengaluru, IN   June 2024 – Present
- Trained deep learning models for selfie quality checks (eyes closed, brightness / dullness) in different geographical regions, achieving <0.5% FAR/FRR.
- Built RAG pipelines using Notion, OpenAI APIs, and LangChain to develop an HR Assistant Slack bot, automating 50+ daily HR query responses, reducing manual intervention by 90%.
- Developed a WhatsApp-integrated chatbot using Glific, ZOHO APIs, and in-house custom document parser (Lex), automating reimbursements for 100+ monthly bills and reducing turnaround time by 2×.

Deep Learning Intern , HyperVerge – Bengaluru, IN   Jan 2024 – June 2024
- Automated low-code API endpoint generation using fine-tuned LLMs and intelligent workflows, reducing development time from 2–3 hours to approx. 15 minutes.
- Built a Selenium-based scraper with OpenAI and LLM-driven filters to automate B2B client discovery via LinkedIn Sales Navigator and Apollo, identifying 300+ qualified leads per execution.

AI-ML Intern , IFFCO Tokio General Insurance Co. Ltd. – Gurugram, IN   June 2023 – Aug 2023
- Developed an image classification model using Inception V3 to automate the differentiation between PAN cards and Aadhaar cards.
- Automating document validation, and enhancing the insurance buyer verification process.

Projects

Automated Lip Reading for Deaf
- Developed a LipNet inspired model for automated lip-reading, leveraging deep learning architectures.
- Combining spatiotemporal convolutions and Bi-LSTM layers to process video input for lip-reading. The model uses soft max and CTC loss for accurate sequence prediction, with ReLU activation applied in all layers.

MCP Financial Agent Bot   muskangupta1906/finbot
- Built FinBot, an agentic AI financial chatbot using LangChain, GPT-4, and Polygon.io APIs with MCP architecture for real-time market insights and dynamic tool invocation.

Achievements

Namma AI: Smart City Intelligence Assistant
- Participated in the Google Cloud AI Agentic Day and was shortlisted in the Top 700 out of 9,100+ ideas submitted.
- Developed a real-time, voice AI agent for Bengaluru that lets users report and query civic issues and events, with AI-driven multimodal analysis and dynamic city-wide visualization.
- Tech stack: Gemini, Google Maps APIs, Firestore, Agent Development Kit (ADK)