Deep Manish Bhatt

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SUMMARY

Results-driven **Data Scientist** with expertise in **Python**, **TensorFlow**, **Scikit-learn**, and **LangChain**. Skilled in data analysis, machine learning, and AI applications, with **hands-on experience** in **LLMs and RAG-based systems**. Passionate about solving complex problems and delivering impactful solutions.

SKILLS

Programming: Python, C, JavaScript, HTML/CSS
AI/ML & Deep Learning: TensorFlow, PyTorch, Scikit-learn, Keras, LLMs, CNN, LangChain, RAG
Data & Automation: NumPy, Pandas, SQL, Beautiful Soup, Selenium, AWS
NLP & Computer Vision: Tesseract & Keras OCR, OpenCV, Generative AI (OpenAI, Google Vertex AI & Vision)
Software Development: Flask, FastAPI, MySQL, Requests

EXPERIENCE

AI-ML Trainee at Cygnet.One Jun. 2024 – Jul 2024

- Developed and implemented AI and ML models, focusing on **Generative AI**, Large Language Models (LLMs), and chatbots as a part of **summer internship.**
- Collaborated on **legal trademark infringement project**, using technologies like **LangChain**, **OCRs** and **AWS**.

PROJECTS

Real-Time Industrial Defect Detection and Classification: Computer Vision and Machine Learning | 🔗

- Developed a universal quality inspection system for assembly line defect detection, achieving a **94% accuracy rate** with adaptability to new objects.
- Utilized technologies like **OpenCV**, **YOLO**, **TensorFlow**, **Keras**, and more.
- A **research paper** on this project is currently **under publication**.

Trademark Vigilant AI: Generative AI | 🔗

- Developed a solution using **Langchain**, **Keras OCR**, **AWS**, **Fitz**, and **Faiss** to detect companies with similar names and prevent trademark infringement via **RAG** giving and **accuracy rate** of about **75-80%**.
- Employed **OCR** and **PDF readers** to extract names from logos and pdf for analysis.

British Airways Review Analysis & Booking Prediction: Data Analysis, Visualization, Scraping, Machine Learning | 🔗

- Conducted **web scraping**, **sentiment analysis**, and **predictive modeling** on customer reviews to forecast booking completion. The model gave about **88% accuracy rate**.
- Applied **NLP** to extract key themes and **visualized insights** with word clouds, bar plots, and heatmaps.

KEY ACHIEVEMENTS

Second runner-up at Data-Throne, 2024

- Led team to second runner-up victory at Data-Throne, 2024 hackathon at LJ University, developing project using **computer vision** and **machine learning** to enhance universal quality inspection processes.

GTU Gold Medal

- Awarded GTU Gold medal in the special category in **Engineering Graphics and Design**.

EDUCATION

New L.J. Institute of Engineering and Technology Ahmedabad, Gujarat
*Bachelor of Engineering, Information Technology (**9.85 CGPA**)* *Oct. 2021 – Present*