

# Deep Manish Bhatt

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## SUMMARY

As a driven **Data Scientist** and **AI/ML enthusiast**, I excel in **Python**, **TensorFlow**, **Scikit-learn**, and **LangChain**, with a strong foundation in data analysis and machine learning. I'm passionate about leveraging innovative technologies to solve complex challenges and continuously evolving my skills to stay at the forefront of the field.

## 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 **97% 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**.
- 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.
- 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

Bachelor of Engineering, Information Technology (9.82 CPI)

Ahmedabad, Gujarat

Aug. 2021 – Present