Deep Manish Bhatt

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EDUCATION

New L.J. Institute of Engineering and Technology — **Ahmedabad, Gujarat**
Bachelor of Engineering, Information Technology (9.82 CPI) — August, 2021 – Present

EXPERIENCE

AI-ML Trainee at Cygnet.One — **June, 2024 – July 2024**

- Developed and implemented AI and ML models, focusing on Generative AI, Large Language Models (LLMs), and chatbots.
- Collaborated on a legal trademark infringement project, utilizing technologies such as Python, TensorFlow, LangChain, FAISS, and AWS.

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.

IBM AI Engineer, Data Science and Machine Learning Certification

- Proficient in data analysis and visualization, with expertise in machine learning concepts and model creation. Also capable in deep learning and AI with certification of IBM AI Engineer from Coursera.

Generative AI Training by Indo – German Tools Room, MSME, Government of India

- Completed an in-depth training program on Generative AI, gaining hands-on experience with LLMs, PaLM2, Vertex AI, and prompt engineering. Developed expertise in advanced AI tools and techniques, equipping me to contribute to innovative AI-driven solutions.

GTU Gold Medal

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

SKILLS

Programming Languages: Python, C, HTML, CSS, JavaScript
Artificial Intelligence and Machine Learning: TensorFlow, NumPy, Pandas, Scikit-learn, Open CV, Pytorch, Keras, Langchain, Tesseract OCR, neural network, CNN, LLMs, Open AI, Google Vertex AI, Google Generative AI
Data Analysis and Visualization: Matplotlib, Seaborn, D3.js, Web Scrapping, Beautiful Soup, Selenium
Database and Query Language: SQL
Tools: GitHub, Photoshop, Arduino UNO, MS Office

PROJECTS

Universal Quality Inspection: Computer Vision and Machine Learning

- Universal quality inspection project created for assembly line defect detection.
- Achieves impressive 95% accuracy rate with flexibility for training on new objects.
- Utilizes technologies like OpenCV, YOLO, TensorFlow, Keras, and more for implementation.

Legal Trademark Infringement Project: Generative AI

- Developed a cutting-edge Trademark Infringement Detection project utilizing Langchain, Keras OCR, Google AI Studio, Fitz, and Faiss.
- This innovative solution identifies companies with similar names to prevent trademark infringement, providing legal protection.

911 Call Analysis: Data Analysis and Visualization

- Analyzed 911 call data (2015-2020), uncovering trends in emergency response, peak incident times, and regional patterns.
- Performed data cleaning, visualization, and EDA to identify frequent emergency types and peak response hours.
- Presented findings, highlighting emergency call distribution and time-based patterns.

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

- Performed web scraping, sentiment analysis, and predictive modeling on British Airways reviews to analyze sentiments and predict booking completion.
- Utilized NLP to identify key themes and trends in customer feedback.
- Developed a booking prediction model and visualized insights using word clouds, bar plots, and heatmaps.

Signature Fraud Detection: CNN

- Used Siamese Network to train a model over signature dataset to find fraudulent signatures.
- The model had an overall accuracy of about 90%.

Amazon ML Challenge 2024: Text Extraction from Product Images

- Led a team of 4 to develop a model capable of extracting measurements (weight, height, width, wattage, voltage, volume, etc.) from Amazon product images.
- Achieved top 0.05% ranking out of 20,000 registered teams, securing 447th place.
- Achieved 25% accuracy in measurement extraction without utilizing dedicated AI models.
- Leveraged Python, OpenCV, Tesseract OCR, and machine learning techniques for implementation.

Money Planned: Financial Management and Records App

- Project website for financial management and record-keeping.
- Analyzes user expenditures, predicts spending patterns, and offers investment and savings suggestions.
- Aids in maintaining a healthy monthly budget and setting savings goals.
- Utilizes Data Science, Nodejs, JavaScript, Bootstrap, HTML, and CSS for implementation.

EXTRA CURRICULAR ACTIVITIES

2nd Dan Taekwondo Black Belt and State Referee

- Second Dan Black Belt in Taekwondo, 13 years training.
- Certified State-Level Referee with 5 years coaching experience

British Airways Data Science Job Simulation on Forage - August 2024

- Completed a simulation focussing on how data science is a critical component of British Airways success
- Scraped and analysed customer review data to uncover findings
- Built a predictive model to understand factors that influence buying behaviour