ANSHUL VIJAY

CONTACT

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SKILLS

Domains
Statistics, Machine Learning, Computer Vision, LLM, Prompt Engineering, NLP, Deep Learning, Image Processing, GenAI, Optimization, Quantization, Statistics, GANs, Linux, Data Structures and Algorithm
Programming Languages
Python, C++, C, R
Frameworks/Tools
OpenCV, OCR, Tensorflow, Docker, Deepstream, Pytorch, Keras, Cuda, Pandas, Scikit-Learn, Matplotlib, NumPy, Seaborn, Selenium, SQL, PySpark, FastAPI, AWS, Terraform, Langchain, llamaindex, Llama, Gemini, GPT, Hugging Face, OpenAI, RAG, AWS, GCP

EDUCATION

10th - 2014
CBSE Board CGPA:- 9.0
12th - 2016
RBSE Board Percentage:- 81%
B.Tech (CS) - 2020
JECRC University:- 8.03 CGPA

POSITIONS OF RESPONSIBILITY

Leading team for delivering solutions to clients. Lead team of 75+ for the cultural and technical event. Organized several sports and technical events in the university.

TECHNICAL ACHIEVEMENTS

Finalist in DAIICT Hackathon.
Top 5 in JECRC Hackathon twice
Won coding competitions in technical fests.

WORK EXPERIENCE

Quantiphi Analytics Solution, Bangalore
Senior Machine Learning Engineer (May, 2021 - Present)
- Developed Video Analytics pipelines using Deepstream and TensorRT.
- Developed a robust multilingual OCR system effectively redacted PII values for data protection using regex and ML techniques.
- Worked on Optimization and Quantization technique for edge devices.
- Worked on Image Clustering, Few-Shot Detection for less data cases.
- Enhanced document classification with RNN, CNN, and Spacy models, incorporating presidio and NER for precise identification of PI and SPI data with accuracy of 93%.
- Leaded a team and worked on developing detection and classification related multiple use cases for client and docker implementation.
- Spearheaded the GenAI project, focused on Text-to-Image conversion and image creation. Implemented innovative algorithms based on user-provided data and keywords, resulting in visually impressive.
- Worked on Langchain and llamaindex based text summarization, created RAG based pipelines which works on summarizing all types of documents provided.
- Worked on developing agentic workflow with define custom AI Agents build with multilevel testing for the defined prompts and task for each agent.

Asmadiya Technologies, Pune
AI/ML Engineer (June, 2020 – May, 2021)
- Developed a cutting-edge Computer Vision project for Automation of Insurance, involving Object Detection, Segmentation, and Image Classification techniques. Implemented custom health and verification checks for different modules, ensuring the accuracy of processed images.
- Optimized machine learning models using Quantization techniques to ensure compatibility with various platforms for deployment, resulting in faster and more efficient processing. All models were dockerized and deployed on AWS.
- Led the development and deployment of project pipelines, including API integration with client servers, ensuring smooth and reliable operation.

Neuron Woods, Faridabad
ML/DL Internship (Jan, 2020 – June, 2020)
- Implemented Object detection and Object tracking solution for crowd counting and analysis. Integrated Machine Learning Algorithms to enhance the robustness and accuracy of the solution.
- Trained Generative Adversarial Networks (GANs) for generating synthetic images, specifically for different fashion styles, enhancing the visual appeal of the products.

PROJECTS

1. RAG System.
Leveraged Langchain, Redis, Ragas, and OpenAI LLMs to create and evaluate Retrieval Augmented Generation pipelines. Employed SOTA prompting techniques like Instruction Prompting, self-consistency etc. to get robust outputs with minimal hallucinations.
2. Background Changer for Images and Videos.
Developed API for changing background in images and videos. Implemented advanced segmentation, masking techniques, ensuring seamless integration with FastAPI for real-time background modifications deployed on AWS server.
3. Kinship Verification
Implemented a Convolutional Neural Network (CNN) based program for detecting kinship relations between individuals based on facial features. Utilized innovative approaches from research papers to achieve accurate kinship classification. It was tested and deployed on GCP Server.