MOHIT WANI

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EXPERIENCE

Artificial Intelligence Intern, Rudra Research and Analytics. Aug 2024 - Nov 2024

- Predicted exit poll with 96% accuracy by hyperparameter tuning of ensemble methods, SVM, and neural networks on a dataset of 0.5 Million records.
- Developed a text-to-speech bot using xtts-v2 multilingual open-source models from Hugging Face to provide bespoke natural-sounding audio.
- Implemented an OCR tool leveraging Tesseract and LLM in Python to extract text from images and automate converting PDF documents into structured Excel sheets.
- Created a script to Scraped 1M data of comments and hashtags from Youtube Data API and Facebook using the Graph API
- Fine-tuned a BERT LLM model for sentiment analysis to gauge public opinion and inform election predictions.

Machine Learning, Google Developer Student Club. Nov 2022 - July 2023

- Collaborated with GDSC teams from three institutes on a traffic management system project, leveraging unsupervised learning algorithms to reduce congestion.
- Conducted workshops and hands-on sessions on machine learning and AI topics, including model building, data processing, and algorithm optimization, for students and aspiring developers.
- Managed and hosted technical events, fostering community engagement, and knowledge sharing among participants and directing in their machine-learning journey.
- Led events under Google WOW, focusing on bridging the gap between academia and industry by providing insights into real-world applications of AI and machine learning.

Machine Learning Intern, **Feynn Labs** Feb 2022 - Apr 2022

- Segmented the Ed-tech market and used feature selection techniques on data over 20 states, leading to a 10% increase in daily active users on the platform.
- Collaborate with cross-functional teams to develop and implement a machine learning algorithm that categorised students on educational platforms, leading to a 20% increase in retention rates.
- Employed Python programming, statistical analysis, and unsupervised learning techniques like K-means to successfully cluster data using demographic and geographic parameters.

EDUCATION

Bachelor of Engineering | Artificial Intelligence and Data Science - AISSMS IOIT, Pune. June 2020 - May 2024
CGPA**:** 8.35

ACADEMIC PROJECTS

ScholarQuery. (Project Link)

Python, Langchain, FAST API, Gemini-Pro, llama2, GPT4all, FAISS, OpeanAI, HuggingFace, Streamlit.

- Leverage Advance Retrieval Augmented Generation (RAG) to get quick, accurate summaries and information from research papers, significantly reducing the time required for literature review.
- Created conversational chain and Buffer Memory to store history for an Arxiv Agent and routes for RAG and agent.
- Employed semantic chunking, FAISS vector store, OpenAI GPT4all embedding, RAG Fusion, MultiQuery retriever, Groq LLM, Opensource HuggingFace Models, Langchain agents and tools.

InverterPulse. (Project Link)

Python, Tensorflow, Scikit-Learn, Pandas, Numpy, HTML, CSS, Bootstrap, Flask, REST API.

- Published CNN-GAP deep learning model and techniques to detect faults in VSI, significantly reducing maintenance costs and time.
- Created a virtual VSI model in MATLAB for data collection and Performed Data reconstruction to convert time series data to a 2d feature map.
- Operated deep learning CNN model to process feature maps and integrated REST APIs using the Flask web framework.

Skills

Languages/Frameworks - Python, SQL, Tensorflow, Keras, Scikit Learn, Pytorch, OpenCV, Vaex, Flask, Transformer, Langchain, LLama index, AutoGPT.

Tools and techniques - Git and Github, GPT, Llama, BERT FineTuning, HuggingFvace, vector databases, Retrieval Augmented Generation (RAG), Graph database, Agents and Tools, AWS, Docker.

Technology - Machine Learning, Deep Learning, Generative AI, Natural Language Processing, ETL, Computer Vision, Large Language Model (LLM), Generative Adversarial Network(GAN) and Autoencoder, GraphQL.

Soft skills - Communication, Public speaking, Teamwork.