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Professional Summary

- Data Scientist with 2.9 Years of experience in analyzing a large dataset, and developing Machine Learning Models for various problem statements using various applications of Computer Vision, Large Language Models, Generative AI, Prompt Engineering and LangChain.
- I hold a Post Graduate Program in Computational Data Science from Case Western Reserve University, USA and a Bachelor of Engineering in Computer Science and Engineering from SJB Institute of Technology.
- Involved in creating various regression and classification algorithms by using various scikit-learn libraries such as Linear Regression, Decision Trees, and Random Forest.
- Capable of developing deep-learning models using multiple frameworks such as TensorFlow, Keras, PyTorch.

Skills

- **Language** - (Python | C++)
- **Generative AI**-(Langchain | OpenAI API | Prompt Engineering | RAG|GPT3 | Llama-7B |T5| BERT | MultiModel | Agentic-AI | Embedding Models)
- **Vector Database**-(Redis | Pinecone | Chromadb | Faiss | Neo4j)
- **Python Libraries**-(Pandas | Numpy | Sklearn | matplotlib | seaborn | Scikit Learn | Keras | TensorFlow | PyTorch | Hugging Face Transformers)
- **Machine Learning** -(Statistics | Statistics Modeling | Linear Regression | Logistic Regression | KNN | SVM | Decision Tree | Random Forest(Bagging, Boosting, Stacking) | PCA | Clustering)
- **Deep Learning Advance**-(Perceptron | Activation Function | Loss function | Optimizer | Regulation)
- **Computer Vision** -(Convolutional NeuralNetwork | Object Classification | Object Detection | Object Segmentation)
- **Natural Language Processing**-(NLTK | Spacy | Stanford | RNN | LSTM | GRU | Encoder and Decoder | Transformer | Bert | BART | Chat GPT)
- **DevOps**-(Git, GitHub | Docker | Jenkins | Linux)
- **Cloud: AWS**-(Sagemaker, EC2, S3, BedRock, Lambda | **GCP**-Basic | **Azure**-basic)
- **Others**-(Data Structure | Flask | Gradio | Excel | Postgres | SQL)

Organizations

- **RevealIT Software Pvt. Ltd** - Jr. Data Scientist (06/2023-Present)
- **TuringMinds.Ai/Insofe/Soothsayer Analytics** - Data Scientist (02/2022 -4/2023)
Note:- Trainee followed by Full-Time in SoothSayer Analytics.
- **WIPRO - Full Stack Developer** (Internship) (03/2022 - 05/2022)

Projects

- **Data Normalizer LLM (Present -on Going Project)**

- This project is about Normalizing the data coming from different source like UCMDDB, ServiceNow, Flexera etc. It have 10 Millions of data to do Preprocessing.
- Data Normalizer do similarity search on Redis, Uisng Redis Vector Similarity search.
- I have used embedding model '[all-MiniLM-L6-v2](#)' model. I have used Redis as vector store.
- This project used Redis, Postgres db,Docker, HuggingFace model and Flask Api.
- I have worked on Fine-Tuning of '[all-MiniLM-L6-v2](#)' model.

- **Private Pdf's Chatbot with Llama-2-7b**

- Data Preparation: Leveraged understanding of existing procedures and workflows in coordination with the client to prepare data for ingestion.
- Collaborated with the client to prepare ground truth data, crucial for the evaluation of Language Model (LLM) performance.
- Constructed an initial pipeline with candidate LLMs (chatGPT3.5-turbo, Llama-2-7b, FLAN-T5-XL,Google-PALM2) and meticulously documented their performance.
- Applied various prompt-engineering techniques (Zero-shot, Few-shot,Chain-Of-Thought prompting, etc.) and logged the results for evaluation using MLFlow
- Implemented Retrieval Augmented Generation (RAG) techniques to fetch relevant information .
- Conducted research on suitable evaluation metrics (ROUGE-L,BLUE Score , etc) and implemented them to evaluate the results.

- **Attendance System for Face Recognition**

- The software was to manage the attendance system. I have used images as a data set for training the model and integrated camera. It also has a reportingsystem to keep track of work assigned and the performance of employees.The accuracy achieved was 98.89%
- Various algorithms used such as KNeighborsClassifier, RandomForestClassifier,PCA, ANN-ReLU(Activation Function)

- **Package: App-ANN-Project-Praveenku32k (Open Source)-Personal**

- Deep understanding of Perceptron using forward and backward propagation and trying to use different Activation Functions.
- This package is to check the different functions of Artificial Neural network.
- I have developed PyPI (The Python Package Index).pip install App-ANN-Project-Praveenku32

Education

- Postgraduate Program in **Computational Data Science** from Case Western Reserve University, USA (Certification) **2022-2023**
- Bachelor of Engineering in **CSE** from SJB Institute of Technology, Bangalore, **2018-2022**

Certification

- Machine Learning and Deep Learning Masters issued by iNeuron(08/2021-07/2022)
- Langchain, Pinecone, OpenAi: Build Next-Gen LLM App by Udmey(06/2023-07/2023)
- Mastering Generative AI with OpenAI, Langchain,and LlamaIndex (02/2024-06-2024)