PRAVEEN KUMAR
 Jr. Data Scientist
2.2+Years Experience
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Experience Summary

- Data Scientist with 2.2+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 have Fine-Tune Mistral,Llama-2,Zephyr ,Qwen1.5 using Lora and Qlora technique. Exploring DPO.

- 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.

- Experience in developing Python scripts using various libraries such as TensorFlow, Scipy, Numpy,Pandas, Matplotlib, Keras API, and OpenCV for data analysis and numerical computations.

- Involved in creating various regression and classification algorithms by using various sklearn libraries such as Linear Regression, Decision Trees, and Random Forest.

- Capable of developing deep-learning models using multiple frameworks such as TensorFlow, Keras, PyTorch, and Detectron2.

Technical Skills

Technical Skills Sets:

- **Language:** Python, C++

- **Generative AI**: LLM-Vicuna-7b, 13b,Llama-7b,Mistral-8b, Falcon-7b, ChatGPT, LORA/QLORA, BARD,PaLM,M2M, FineTurning, RAG, DPO, Evaluation(Ragas,BLUE,Rouge),Embedding(AllMiniLM-L6-V2).

- **LLM Frameworks**: LangChain, LlamaIndex

- **Frameworks**: Keras, TensorFlow, PyTorch

- **Python Libraries**: Pandas ,Numpy , sklearn, matplotlib, seaborn, Scikit Learn

- **Machine Learning**: Statistics, 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**: LeNet-5, AlexNet, VGG, GoogleNet, ResNet, Object detection, Object Classification, YOLO-V1,2,3,4,5,X,R,Segmentation, GAN,SSD.

- **Natural Language Processing**:NLTK, Spacy, Standford, LLM, LSTM, GRU, Encoder and Decoder, Transformer, Bert, BART, ChatGPt-V1, V2, Chat GPT(Basic), Attention Is All You Need(Transformer))

- **DevOps**: Git, GitHub, Docker, Jenkins,Linux

- **Cloud**: **AWS**(Sagemaker,EC2,S3,BedRock,Lambda),**GCP**-Basic, **Azure**-basic

- **Others**: Data Structure,Flask,Gradio,

Organizations

- **RevealIT Software Pvt. Ltd -** Jr. Data Scientist (06/2023-Present)
- **TuringMinds.Ai/ Soothsayer Analytics -** Data Scientist (04/2022 -4/2023)
  - **-Note:** Training as Data Scientist for 10 months and promoted as Data Scientist.
- **WIPRO (Internship)-** Full Stack Developer (03/2022 - 05/2022)

Academic

Level	Year of Passing	University / Board	Percentage/CGPA/Completion
Postgraduate Program in Computational Data Science	2023	Case Western Reserve University, USA	Certification Completed
Bachelor of Engineering	2022	SJB Institute of Technology, Bangalore	8.1

Projects

- **Data Normalizer (Present -on Going Project)**
  - ✓ This project is about Normalizing the data coming from different source like UCMDB, ServiceNow, Flexera etc.
  - ✓ 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, Redis Cache, Postgres db, HuggingFace model and Flask Api.

- **Vicuna-13b(Chatbot)+ Private Pdf's Chatbot (LLM)**
  - ✓ I have used vicuna-13b model from HuggingFace.I have used `all-MiniLM-L6-v2` for Embedding.
  - ✓ First I have used langflow for the flowchart. Based on flowchart made this project.
  - ✓ This project is about chat with multiple private pdf with Chromadb vectorstore and pinecone.
  - ✓ I have used langchain to create this project.

- **Package: App-ANN-Project-Praveenku32k (Open Source)**
  - ✓ 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
  - ⚙ GitHub Link: Praveenku32k/App_ANN_Project: App_ANN_Project (github.com)

Certificates

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