

PRAVEEN KUMAR

Jr. Data Scientist

2.7 Years Experience

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Experience Summary

- Data Scientist with 2.7 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, AllMiniLM-L6-V2, OpenAI, Llama-2, Zephyr, Qwen1.5 using Lora and Qlora technique. Exploring DPO and RLHF.
- 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, scikit-learn, Numpy, Pandas, Matplotlib, Keras API, and OpenCV for data analysis and numerical computations.
- 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.

Technical Skills

- **Language:** Python, C++
- **GenerativeAI:** LLM-Vicuna-7b, Llama-7b, Mistral-8b, Falcon-7b, ChatGPT, OpenAI, LORA/QLORA, Gemini, M2M, Fine-Tuning, RAG, DPO, Evaluation(Rouge, Ragas, BLUE), Embedding(AllMiniLM-L6-V2, OpenAIEmbedding).
- **LLM Frameworks:** LangChain, LlamaIndex, Keras, TensorFlow, PyTorch
- **Vector Database:** Redis, Pinecone, Chromadb, Faiss, Neo4j
- **Python Libraries:** Pandas, Numpy, Sklearn, matplotlib, seaborn, Scikit Learn
- **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:** LeNet-5, AlexNet, VGG, GoogleNet, ResNet, Object detection, Object Classification, YOLO, Segmentation, Generative Adversarial Neural Network (GAN), SSD.
- **Natural Language Processing:** NLTK, Spacy, Stanford, LSTM, GRU, Encoder and Decoder, Transformer, Bert, BART, ChatGPT, 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, Excel, Postgres, Redis.

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)

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 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.
- **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 .
- **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)**
 - ✓ 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 \(github.com\)](https://github.com/Praveenku32k/App-ANN-Project-App-ANN-Project)

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, Langchain,and LlamaIndex (02/2024-06-2024)