TECHNICAL SKILLS

Statistical Analysis : ·Descriptive Statistics, Inferential Statistics,Predictive Modeling, Hypothesis Testing, Exploratory Data Analysis

Supervised Learning : Linear Regression,Ridge Regression, Lasso regression, Logistic Regression, KNN, SVM, Naïve Bayes Classifier

and Decision Trees

Ensemble Learning: · Bagging, Boosting, Random Forest, Ada-Boost, Gradient Boost and XG-Boost.

Unsupervised Learning: · K-Means Clustering, Hierarchical Clustering and DB Scan Clustering.

Hyperparameter Tuning and Cross Validation : · Grid Search CV, Random Search CV,· K- Fold Cross validation, Stratify Cross

validation, Leave one out Cross validation

Natural Language Processing : · Regular Expression, Stop-words, Tokenization, POS Tagging, Stemming, Lemmatization,,

Sentimental Analysis, Named entity Recognition, RNN, LSTM, BERT, Transformers, ALBERT, and RoBERTa

Text Embedding : Bag of Words, TF-IDF, Word2Vec, Glove, FastText, BPE, OpenAI Embedding, Gemini Text Embeddings, Nomic

Embedding, Hugging Face embedding, Titan mbedding and mistral-embedding,

Large Language Models : GPT Models, LLaMa-2, LLaMa-3, Falcon, Mistral, Gemma, Claude and Phi 3 Models

LLM Fine-tuning : SFT, DPO, RLHF,PEFT - LoRA & QLoRA, Instruct, Function Calling Instruct

RAG Frameworks : Langchain, LlamaIndex, Pinecone, FIASS, Qdrant, Chroma DB and Weaviate.

Neural Networks and Computer vision : ANN, CNN,Open CV,Transfer Learning - Alexnet, GoogleNet VGG16, VGG19, Resnet,

Inception, Exception, MobileNet, YOLO and Stable diffusion models

Model Deployment : Docker, AWS Bedrock, AWS Sagemaker and ,GPU Server.

Toolkit and Libraries : Python, Numpy ,Pandas, Seaborn, Matplotlib, Scipy, Scikit-learn, Keras, Tensorflow, Open CV, Cv2, PyTorch,

SpaCy, Asyncio, HugginfFace and Transformers

Machine Learning • Predictive & Statistical Modelling • Python Programming • SQL Database Management

• Data Analysis • Data Visualization • Optimization Techniques • Model Deployment

• Large Language Models • Text Generation • Text Extraction • RAG Frameworks • Deep Learning • Neural Networks

• Image Processing • Computer Vision • Speech Processing • Real-Time Speech Recognition

•Prompting • Team Management • Project Delivery • Process • Debugging • Communication and Presentation Skills