

ANAND SAGAR

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PROFESSIONAL EXPERIENCE

Having 3+ years of experience in Data Science and Data Analysis, Specializing in Machine Learning, Deep Learning and Natural Language Processing, alongside leveraging Generative AI technologies to develop innovative solutions for text. Skilled in Transformer models (BERT & Distil Bert) for NER and Sentiment Analysis with large datasets. Proficient in ML model building, data processing, and feature engineering. Skilled in basic Power BI for data visualization.

Capgemini LLM Engineer

Bangalore, Karnataka
Aug,2023-

- Utilized Retrieval-Augmented Generation (RAG) to fetch relevant information and generate accurate responses by integrating ICICI scheme documents to provide insights into various financial schemes, and OLA Electric model details to enable users to explore features, specifications, Pricing and options. The interactive interface enhances user engagement, helping customers make better purchasing decisions.
- Developed a sentiment analysis system leveraging Transformers (BERT & Distil BERT) models to classify text into sadness, anger, love, Surprise, fear and joy sentiments. Fine-tuned pre-trained transformer models on large sentiment datasets, achieving good accuracy. Optimized performance by comparing BERT's accuracy with Distil Bert's efficiency for real-time analysis
- Created a RAG application with 100+ multi-document to help new employees efficiently access company policies, benefits, and training materials. The system uses a vector database to retrieve relevant documents and generate concise answers to queries like "What is the leave policy?" or "How to claim travel expenses?" and many more.
- Worked on real-time vehicle counting system leveraging the YOLOv8 object detection model for high-speed and accurate vehicle detection in traffic footage. The system processes live camera feeds to count and classify vehicles (cars, buses, trucks, bikes) with 90% accuracy.

Analyst/Software Engineer

Bangalore, Karnataka
Dec,2021 - July,2023

- Developed a predictive model to estimate customer interest in a new financial product by analyzing behavior and past purchases. Preprocessed data by handling missing values, outliers, and applying PCA for dimensionality reduction. Built and optimized machine learning models like Logistic Regression, Random Forest, and Ensemble methods. Validated models using cross-validation and improved recall through feature engineering and statistical analysis.
- Developed a Power BI dashboard and SQL queries to analyze key financial metrics like total funded amount, received amount, profit, interest rates, and loan quality. Validated insights by comparing Power BI outputs with SQL results to ensure accuracy before review.

EDUCATION

B. Tech Computer Science & Engineering
RadhaRaman Institute of Technology & Science Bhopal, Madhya Pradesh

2017 - 2021
CGPA | 7.33

SKILLS

Technical Skills:

- Programming:** Python, Machine Learning, Deep Learning, Natural Language Processing, Generative AI, Timeseries Forecasting (ARIMA, SARIMA, Facebook Prophet Model), SQL, PowerBI (Basic), MLOps(Mlflow).
- Dev Tools:** Git & GitHub, Jupiter Notebook, Google Collab, Vs Code, SQL Server Management Studio.
- AI and Machine Learning:**
 - Machine Learning:** Linear Regression, Logistic Regression, Decision Tree, Random Forest, Ensemble, Gradient Descent, PCA, SVM, KNN, Statistical Analysis, Predictive Modeling, Feature Engineering, Hypothesis Testing,
 - Deep Learning:** DNN, CNN, RNN
 - NLP:** Bag of Words, TF-IDF, Word2Vec, Sentiment Analysis, NLTK
 - Computer Vision Model:** YOLOv8
 - Gen AI & LLM Models:** Transformers (Bert & Distil Bert), Retrieval-Augmented Generation (RAG), Lang Chain, Hugging Face Transformers (for NLP models), Vector Databases (FAISS, Chroma DB), OpenAI (GPT-4 / GPT-4 Turbo), Meta (Llama 2, Llama 3), Google (Gemini)
 - Frameworks:** Pandas, NumPy, Matplotlib, Seaborn, TensorFlow, PyTorch, Scikit-learn, Keres, XGBoost

Soft- Skills:

1.Communication skills. 2.Critical thinking skills. 3.Leadership skills. 5.Project Management skills.

CERTIFICATIONS

1.Micorosoft Certified: Power BI Data Analyst Associate (PL-300) 2. Capgemini Ocean: SQL Certificate 3. Capgemini: Gen AI Learn-A-thon

LANGUAGES

1. English 2. Hindi 3. Maithili