

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 preprocessing, and feature engineering. Skilled in basic Power BI for data visualization.

Capgemini LLM Engineer

Bangalore, Karnataka
Nov,2023-

- Utilized Retrieval-Augmented Generation (RAG) system to provide accurate and relevant insights for customers. The objective was to fetch real-time financial scheme details from ICICI bank documents and OLA Electric vehicle specifications, enabling users to make informed financial and purchasing decisions.
- Developed a sentiment analysis system using BERT and DistilBERT to classify text into positive, negative, and neutral categories, fine-tuning pre-trained transformer models on large sentiment datasets for high accuracy while optimizing performance by balancing BERT's precision with DistilBert's efficiency for real-time analysis.
- Designed a Named Entity Recognition (NER) system using Large Language Models (LLMs) to extract entities such as Names, Organizations, Locations, dates and other key information, from Unstructured text. The project leveraged Transformer-based models like BERT to enhance contextual understanding and improve entity recognition accuracy.

Software Engineer

Bangalore, Karnataka
Dec,2021 - Aug,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.
- Created 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.
- Used machine learning model to predict monthly sales using historical data, trends, and external factors (weather, holidays, promotions). Implemented time series forecasting (ARIMA, Prophet) and regression models (Random Forest, XGBoost) to achieve 95% accuracy.

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, XGBoost, 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
 - Gen AI & LLM Models:** Transformers (Bert & Distil Bert), Retrieval-Augmented Generation (RAG), LangChain, 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, Keras, 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