

## ANAND SAGAR

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### PROFESSIONAL EXPERIENCE

Having 3.3 Years of experience in machine Learning, data analytics, and NLP, Specializing in Predictive modeling, Deep Learning, and Generative Ai. Proficient in building ML models, feature engineering, and data-driven decision-making to solve real-world business problems. Hands-on expertise in fine-tuning transformer models (Bert, DistilBERT) for Named Entity Recognition and Sentiment Analysis. Experienced in RAG Systems, vector databases and Langchain-based LLM Applications.

#### Capgemini (Data Science & Analytics)

jan,2022 – Present (Bangalore)

- **Retrieval-Augmented Generation (RAG) System for Financial Insights**
  - Designed an RAG-based system to fetch real-time financial scheme details from ICICI Bank documents and OLA Electric vehicle Specifications
  - Enabled customers to access accurate and relevant insights for informed financial and purchasing decisions.
  - Automated document retrieval and response generation using RAG and NLP techniques for real-time information extraction.
- **Sentiment Analysis with BERT & DistilBERT**
  - Developed a sentiment analysis system using BERT and DistilBERT to classify text into positive negative, and neutral categories.
  - Fine-tuned pre-trained transformer models on large sentiment datasets to achieve 93% accuracy.
  - Optimized performance by balancing BERT's precision with DistilBERT's efficiency for real-time analysis.
- **Power BI Dashboard for Financial Metrics**
  - 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.
  - Designed interactive visualizations to track financial trends and insights for better decision-making.
  - Ensured data accuracy by validating Power BI outputs against SQL query results.
- **Time Series Sales Forecasting**
  - Implemented ARIMA, Facebook Prophet, SARIMA, Random Forest to predict monthly sales based on historical data and trends.
  - Incorporated external factors like weather, holidays, and promotions, achieving 95% accuracy
- **Customer Interest Prediction for Financial Products**
  - Built a predictive model to estimate customer interest in new financial products by analyzing behavior and past purchases.
  - Preprocessed data using PCA, feature engineering, and handled missing values and outliers for improved model performance.
  - Optimized models like Logistic Regression, Random Forest, and Ensemble methods, enhancing recall through cross-validation.

### EDUCATION

#### B. Tech Computer Science & Engineering

RadhaRaman Institute of Technology & Science Bhopal, Madhya Pradesh

2017 - 2021

CGPA | 7.33

### Technical Skills

- **Languages:** Python, Machine Learning, Deep Learning, Natural Language Processing, Generative AI, MLOps(Mlflow)
- **Databases:** SQL, MYSQL
- **Data Visualization Tools** – Power BI
- **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, Gradient Boosting (XGBoost, Gradient Boosting), PCA, SVM, KNN, Statistical Analysis, Predictive Modeling, Feature Engineering, Hypothesis Testing, Data Mining, Data Wrangling, Time Series Forecasting (ARIMA, SARIMA, Facebook prophet model)
  - **Deep Learning:** Multilayer Perceptron Model, Convolutional Neural Network, Recurrent Neural Networks, Transformer Models (Bert, Distil Bert)
  - **NLP:** Sentimental Analysis, TF-IDF, Bag of Words, Word2Vec, NLTK, Lemmatization & Stemming, Stopword Removal, Tokenization (word, sentence)
  - **Computer Vision models:** YOLOv8
  - **RAG & Gen AI:** fine tuning (LoRa.), Prompting (COT), Retrieval-Augmented Generation (RAG), LangChain, Hugging Face, Transformers (for NLP models), Vector Databases (FAISS, ChromaDB), OpenAI (GPT-4 / GPT-4 Turbo), Meta (Llama 2, Llama 3), Google (Gemini)
  - **Frameworks and Tools:** Pandas, NumPy, Matplotlib, TensorFlow, PyTorch, Scikit-learn, Keres, Open AI, OpenCV

#### 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