# Bhargav Telu

*Data Scientist*

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## Objective

Enthusiastic Data Scientist with hands-on experience in industry projects and internships. Adept at leveraging data to drive business insights and decisions. Seeking to apply my experience from Cognizant and recent internship to contribute to impactful data-driven projects in a forward-thinking organization.

## Personal Projects

### Multi-AI Agent for Video-to-Blog Conversion

- Designed and implemented a multi-agent AI system using CrewAI that automates the process of converting YouTube videos into blog posts. The system uses AI agents to transcribe video content, summarize key points, and generate well-structured blog posts, allowing content creators to efficiently repurpose their video material for written formats.
- **Tech**: CrewAI Agents, Python, Langchain, LLM.

### Natural Language to SQL Query using LLM

- Developed an end-to-end Large Language Model (LLM) application using Open Source LLM that converts natural language text inputs into SQL queries. The application processes user input, generates SQL queries, and retrieves data from a SQL database based on the query, allowing non-technical users to interact with complex databases through simple text commands.
- Utilized Langchain for text extraction, Groq for inferencing and Provided a user-friendly interface using Streamlit that allows users to input questions.
- **Tech**: Google Gemini Pro (LLM), Python, SQL Toolkit, Langchain, RAG, Streamlit.

### ChatBot for Documents

- Designed and implemented a dynamic document-based Chatbot platform, enabling users to upload diverse file formats (PDFs, Excel, JSON, text) for intelligent querying.
- Utilizing Langchain for text extraction, Hugging Face Transformers for sentence embedding, Pinecone for storing the vectors, Streamlit for the user interface, and OpenAI for chatbot functionality .
- Users can quickly find specific information within lengthy PDF documents without manually searching through pages, saving time and effort.

### Real or Fake News Analysis

- Developed a machine learning model to classify news articles as real or fake, leveraging natural language processing (NLP) techniques and advanced machine learning algorithms.
- It helps to address the growing concerns of misinformation in digital media and social platforms

## Skills

- Programming Languages: Python
- Libraries: Pandas, NumPy, Matplotlib, Seaborn, NLTK, TensorFlow, Keras, langchain, openai, Hugging Face Transformers, Streamlit, CrewAI, Groq.
- Machine Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forest, SVM, Clustering (K-Means, Hierarchical)
- Natural Language Processing (NLP): word2vec, Neural Networks, LSTM (Long Short-Term Memory), Transformers, BERT, LLM, GenAI, RAG
- Data Wrangling: Data Cleaning, Feature Engineering, Data Preprocessing
- Tools: Jupyter Notebooks, Git, VS Code
- Model Deployment: AWS(Bedrock, API Gateway)

## Experience

**Junior Data Scientist,**
Cognizant Technology Services

*2021 - 2022*

- Developed a machine learning model using Python and scikit-learn library that predicted the likelihood of insurance claims being fraudulent based on claimant information and historical claims data.
- Evaluated the model's performance using metrics such as precision, recall, and F1-score, and presented the results to stakeholders.
- The project resulted in a 15% reduction in fraudulent claims, saving the insurance company millions of dollars in losses.

**Data Science Intern,**
AiVariant

*2022 - 2023*

- Worked closely with senior data scientists to enhance data processing pipelines and improve the accuracy of predictive models.
- Prepared detailed reports and presented findings to senior management, contributing to strategic planning and decision-making.
- Skilled at various technical skills Python, Machine Learning, and Natural Language Processing and implemented on real world data.

## Certificates

- IBM Certified Machine Learning with Python
- ExcelR Certified Data Science

## Education

- **Sathyabama Institute of Science and Technology**
  - Bachelor's Degree in Mechanical Engineering
  - CGPA – 8.15 out of 10