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#### Senior Data Scientist with 6 years of professional experience, showcasing a demonstrated proficiency in crafting impactful data-driven solutions and spearheading the development of Generative AI and intricate ML Pipelines.

#### Proficient in advanced analytics, machine learning, and statistical techniques for deriving actionable insights. Bringing a solid history of creating and deploying secure AI solutions across various domains on cloud platforms. Adept in leveraging Azure and GCP cloud services to implement cutting-edge AI technologies.

# **Professional Experience**

#### Capgemini Technologies (Senior Consultant) - Chennai August 2021 – Present

#### Wipro Limited (Consultant) - Chennai May 2018 – August 2021

**Senior Data Scientist – Fluke Instrumentals – Tech Support GPT Chatbot**

* Spearheaded the development of a customer centric ChatGPT bot using RAG architecture aimed at optimizing technical support interactions.
* Efficiently extracted valuable data from diverse online sources, SharePoint, and knowledge base documents, then implemented a Power Automate Flow to index the data into Cognitive search.
* Took charge of creating Azure resources such as App servers, configuring databases, establishing, and indexing Cognitive search, and managing storage accounts.
* Improved and executed workflows on Logic Apps, contributing significantly to streamlined business processes.
* Conducted seamless conversions, data generation, and extensive testing using Postman.
* Ensured smooth and error-free application and system deployments across all environments, demonstrating deployment expertise.
* Developed a Power BI dashboard for monitoring Chatbot usage, tracking reports, and auditing Azure resources.

**Senior Data Scientist – Fluke Instrumentals – AI Document Translator**

* Contributed to the development of a Python web application leveraging Azure AI services to translate user-uploaded documents into the desired language.
* Built using Python, incorporating Flask and Streamlit, the application was deployed on Azure Web App and utilized multiple Azure services.
* Provided customers with a user-friendly and seamless interaction experience through the utilization of Python's Streamlit library.
* Implemented Single Sign-On (SSO) to the Azure App service, ensuring that only authenticated users could access the application.
* Developed a Power BI report to track metadata and usage details, enhancing monitoring and analysis capabilities.

**Data Scientist – Fortive – Demand Supply Solutions**

* Developed a proof of concept (POC) for an innovative job description matching system, incorporating Google's cutting-edge Gen AI text summarization methods.
* Created robust Python APIs utilizing Flask and React.js to facilitate smooth platform interaction.
* Utilized Google's text-bison@001 for extracting essential details from resumes, enhancing data extraction accuracy.
* Integrated a Neo4j graph database using Cypher queries to optimize data interaction efficiency.
* Fine-tuned the Google Text-Bison@001 model to develop the application, significantly improving the identification of user sentiment in reviews and storing predicted sentiments in BigQuery. The data was then visualized using Looker Studio.

**Data Scientist – NPS – Customer Sentimental Analysis**

* Engineered an NLP model aimed at achieving named entity recognition by assessing positive and negative sentiments within customer reviews.
* The model's purpose is to analyze feedback and discern customer preferences, aiding businesses in refining their strategies.
* Leveraged Spark NLP and ML tools such as BigQuery, while streaming data through Pub/Sub and constructing pipelines with Kubeflow.
* Utilized Cloud Storage to aggregate raw data files and stored processed sentiment analysis results in Parquet files within BigQuery.

# **Skills & Abilities**

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| **Programming Languages:** Python – Flask, Streamlit, Fast API **ML Algorithms**: XGBoost, Decision Tree, Random Forest, SVM, Linear Regression, Classification, K- Means Clustering, Boosting, Principal Component Analysis (PCA) **Natural Language Processing (NLP)**: NLTK  **Generative AI/LLM models:** OpenAI GPT 3.5, Google Gemini AI  **Visualization**: Power BI, Looker Studio | **Cloud Technology:** Azure, GCP  **Data Science Platforms**: Azure Machine Learning Studio, Google Vertex AI, Jupyter notebooks  **Infrastructure/Deployment/Production/ML Ops**: Azure Storage container, App server, Docker, Kubeflow, Power Automate, Logic apps.  **Version Control**: Git hub, Git lab  **Methodology:** Agile development  **Big Data:** BigQuery, MySQL, Neo4j, Cosmos DB, Vector DB |

# Certifications

* Google Cloud Certified – Professional Machine Learning Engineer.
* Generative AI fundamentals

# Achievements

* Achieved Delivery excellence award for extensive contribution in project delivery.

# Education

* B.E in Computer Science Engineering (2014- 2018)- 6.8 CGPA, Anna University.