Ashwin C

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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 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

Programming Languages: Python – Flask, Streamlit, Fast API

ML Algorithms: XGBoost, Decision Tree, Random Forest, SVM, Linear Regression, Classification, K- Means Clustering, Boosting, Principal ComponentAnalysis (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

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.