

# Ashwin C

+91 6379508752

[ashwinchellappan97@gmail.com](mailto:ashwinchellappan97@gmail.com)

<https://linkedin.com/in/ashwinchellappan>



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

**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.