# Shashi Kiran Chandrappa

Fairfield, CT, USA | schandrappa@student.fairfield.edu | +1 (203) 243 – 0469
GitHub | LinkedIn | Portfolio

## SUMMARY

Senior Data Scientist and Generative AI Engineer with 9+ years of experience in statistical modelling, machine learning, and data processing, specializing in techniques like Retrieval-Augmented Generation (RAG) and model fine-tuning. Proven track record in leveraging BI data to drive performance and meet revenue targets, seeking data science and machine learning engineer roles.

## EXPERIENCE

**Aligned Automation Services Limited Bengaluru, Karnataka, India – Client: Dell (United States)**
**Senior Data Scientist**                                                                                                     **(07/2022 – 08/2024)**
- Delivered warehouse demand and supply forecasts by building time series models (Prophet, ARIMA, Croston), improving demand planning efficiency (accuracy) by 15%.
- Developed and fine-tuned generative AI models (Llama, GPT, Mixtral) using LoRA and QLoRA, improving language model inference. Cost reduction from replicating same features and efficiency from OpenAI to OpenSource (Mixtral, Llama).
- Delivered high-performance AI solutions by utilizing cutting-edge technologies, reducing model deployment time by 25%.

**Tata Consultancy Services Bengaluru, Karnataka, India – Client: Largest Retail Chain (United States)**
**Data Scientist**                                                                                                             **(02/2021 – 07/2022)**
- Boosted sales forecast accuracy by 12% (~84%) through customer sentiment analysis and automated real-time reporting with GCP and DOMO, reducing report generation time by 25% (Efficiency).
- Improved sales transference forecasting by 15% and enhanced market basket analysis, optimizing product layout efficiency by 10% through insights on customer behaviour.

**HCL Technologies Bengaluru, Karnataka, India – Client: Applied Materials (United States)**
**Senior Data Analyst**                                                                                                         **(03/2018 – 10/2020)**
- Increased sentiment analysis accuracy by 8% with a multiclass LSTM (Long Short - Term Memory) model and automated text extraction, cutting manual processing time by 25%.
- Reduced delivery lead times by 15% through predictive regression models and Tableau analysis, enhancing supply chain efficiency and collaboration by leading a team of 6 managing weekly sprints progress and maintaining QC.

**Bosch Limited Bengaluru, Karnataka, India Management Intern**                                       **(01/2016 – 02/2018)**
- **Addressed technical and data-related challenges in the Supply Chain business** by collecting and analysing data with Tableau and PowerBI, providing feedback on project risks and resource needs, and collaborating with cross-departmental leads to enhance policies and standards.

## EDUCATION

**Fairfield University,** Fairfield, CT
      Master of Science in Business Analytics (MSBA) in Concentration in **Artificial Intelligence**.    **(01/2024 – 05/2025)**
**Liverpool John Moors University,** Liverpool, United Kingdom – MS in AI & ML    **(11/2023 – 07/2024)**
**International Institute of Information Technology,** India – Exec PG in AI & ML    **(05/2022 – 10/2023)**
**Visvesvaraya Technological University**, India – B.E in Mechanical    **(07/2012 – 01/2016)**

## PERSONAL PROJECTS (In Research)

**GAN-BASED COVID CHEST X-RAY SCAN IMAGE GENERATION:** Developed a GAN-based (Generative adversarial network) model for synthetic COVID-19 chest X-ray generation, improving dataset diversity and boosting detection accuracy by 25% for enhanced healthcare diagnostics.
**REAL NEWS & FAKE NEWS CLASSIFIER (END to END):** Developed and deployed a Python-based news classification system with 80% accuracy using Scikit-Learn, TFIDF, NLP, Flask, and Heroku for identifying fake news.

## ANALYTICAL & TECHNICAL SKILLS

**Platforms:** OpenAI, Langchain, RAG (Vector Stores – FIASS, Chromadb, Pinecone), HuggingFace, Mistral.
**Models:** Regression, Classification, Forecasting, Llama3, GPT 3.5 turbo, Mixtral 8x7b, Open Source (HuggingFace), Deep Learning Architectures (Transformers, Encoder Decoder Architecture, ImageNet)
**Tools/Software:** Python, RStudio, SQL, Tableau, PowerBI, Microsoft Excel, NLP, Databricks.
**Storage:** Teradata, Google Cloud BigQuery, DataLake
**Web:** Microsoft Azure, Google Cloud Platform, AWS Sage Maker