

# Achyuthuni Sri Harsha

**Data Scientist, Deloitte, Imperial College London, IIMB, harshaash.com**

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## Summary

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Harsha is a seasoned data scientist with over 8 years of experience, currently a Manager at Deloitte. He holds a Master's in Business Analytics from Imperial College London and has led impactful AI and ML projects in the aerospace, FMCG, pharmaceutical, retail, and manufacturing sectors. His work includes developing predictive maintenance tools, demand forecasting, risk analysis, optimisation engines, and generative AI solutions. He is also a recognised thought leader, with awards and publications in advanced analytics and machine learning.

## Technical skills

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<b>Analytics</b>	Python, R, CPLEX, Pyspark
<b>ML Modeling</b>	Scikit-learn, XGBoost, Hyperopt, TensorFlow, PyTorch
<b>Gen AI</b>	LangChain, Hugging Face Transformers, OpenAI API, Gemini, NLTK, LoRA, RAG, Agentic AI
<b>Data Engineering</b>	SQL, Alteryx, Airflow, BigQuery
<b>Visualisation</b>	Matplotlib, Seaborn, Plotly, Streamlit, HTML, Javascript
<b>Cloud</b>	Azure ML, Databricks, Google Cloud platform, Vertex AI
<b>Project &amp; Team Management</b>	Agile/Scrum, Jira, Confluence, GitHub

## Education

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<b>Imperial College London</b> <i>Master of Science, Business Analytics</i> <i>Graduated with distinction</i>	<i>September 2020 - September 2022</i> <i>London, United Kingdom</i>
<b>Indian Institute of Management, Bangalore</b> <i>Executive Education, Business Analytics and Intelligence</i> <i>Graduated with Honors, Part-time on-campus program</i>	<i>June 2019 - June 2020</i> <i>Bengaluru, India</i>
<b>Amrita Vishwa Vidyapeetham</b> <i>Bachelor of Technology, Mechanical Engineering</i> <i>Graduated with distinction, CGPA: 8.92/10</i>	<i>June 2013 - June 2017</i> <i>Bengaluru, India</i>

## Publications

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- *Preventive maintenance of aircraft engines* presented at the *9th International Conference on Business Analytics and Intelligence* (Best Paper award)
- *Scarecrow - Intelligent Annotation platform for Engine Health Management* presented at *AI ML Systems conference* and published in *ACM*
- *Personal analytics: Time management using Google Maps* Presented at *International Conference on Statistical Applications in Data Analytics and Data Science*
- *Parametric Study of Cantilever Plates Exposed to Supersonic and Hypersonic Flows* published in *IOP Conference Series*

## Work experience

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**Deloitte**  
*Manager, Data Science*

*January 2021 - Current*  
*Hyderabad, India*

Client: **PepsiCo**

- Built and deployed granular **volume forecasting** models across the North American market using Python, PySpark, and Databricks, achieving 90% accuracy and improving planning across customer, location, and package dimensions
- Designed scalable MLOps pipelines in Azure, implementing **CI/CD and Continuous Training** processes, enhancing reliability, monitoring, and deployment efficiency

Client: **Dr Reddy Labs**

- Developed a **GenAI**-based tool to automate the extraction of key data from US Government pre-solicitation and solicitation bids, accelerating bid creation for sales and supply chain teams
- Developed a competitive intelligence pipeline leveraging FDA inspection news via Google News API and web scraping, integrated with PaLM 2 for analysis, and deployed using Airflow, Vertex AI, and BigQuery on Google Cloud Platform

Client: **Rolls-Royce**

- Explored unsupervised learning methods to **predict aircraft engine part failures**, led the deployment of physics-informed ML predictive maintenance models for two parts across **1000+ engines**, and built an autoencoder-decoder model to detect anomalies by modeling new engines on the test beds using 250+ parameters
- Created a “Human with AI” tool that saved 1,200+ man-hours by assisting SMEs in diagnosing engine issues
- Developed a supplier optimisation engine that influenced £180M in sourcing decisions

Client: **Unilever**

- Developed a proof of concept (PoC) application that assigned jobs in a manufacturing plant based on contractor preferences, past performance and availability

Client: **OLAM International**

- Set up a Data Centre of Excellence using Azure Cloud and built scalable data pipelines

**Tesco**  
*Senior Business Analyst*

*April 2020 - January 2021*  
*Bengaluru, India*

- Collaborated on data science initiatives to optimise store performance and operations across Tesco's UK, Central Europe, and Ireland markets in the Space, Range, Display, Merchandising, and Promotions domain

**Mu Sigma**  
*Decision Scientist*

*October 2017 - April 2020*  
*Bengaluru, India*

Client: **Walmart International**

- Improved under-stocking for Walmart's LATAM supply chain, delivering \$1.2M/month in savings by modelling **supplier delivery risk** (75% accuracy), **forecasting lead times** (85% SMAPE), and suggesting an optimised EOQ/reorder points that integrate these risks via **integer programming** and Monte Carlo simulations
- Built an NLP-based PoC to estimate ingredient composition and cost in food items using USDA nutrient data, aiding sourcing managers and food scientists in procurement decisions
- Collaborated with cross-functional teams to develop an interactive web application that empowered sourcing managers and buyers with real-time decision-making tool

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## Awards and Certifications

**Professional Scrum Master  
Best Paper Award**

PSM 1 certificate by scrum.org

Awarded for best paper presentation at the *9th International Conference on Business Analytics and Intelligence*

**Move the dot**

Awarded by Deloitte for innovation

**President's Bonus**

Awarded to the top 5 per cent of employees globally at Deloitte in FY22

**Star of the sprint**

Awarded by Rolls Royce Data Labs for excellent work

**Highly commended project**

Awarded by IIMB for capstone project

**Spot Award**

Awarded by Mu Sigma