

# **RAMYASREE GOALLA**

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## **Professional Summary**

Analytical and detail-oriented Data Analyst with an MSc in Data Science and Analytics and over 3 years of experience in transforming complex datasets into actionable business intelligence. Proven expertise in Python, SQL, Power BI, and Tableau to drive data-driven decision-making. Specialized experience in managing enterprise-level data for US-based Healthcare clients, ensuring high system availability and HIPAA-compliant data handling. Adept at bridging the gap between technical data metrics and strategic business requirements in the UK and global markets.

## **Technology Skills**

- Languages & Analysis: Python (Pandas, NumPy, Scikit-Learn), SQL, Core Java
- Data Visualization: Power BI, Tableau, Advanced Excel Dashboards
- Analytics Domain: Exploratory Data Analysis (EDA), Statistical Modeling, Data Cleaning and Preprocessing
- Tools & Platforms: ServiceNow, Splunk, Netcool, Jira, Microsoft Azure
- Process Knowledge: SDLC/STLC, Incident Management, Infrastructure Data Monitoring

## **Work Experience**

### **Health Catalyst (Remote)**

**United Kingdom**

**Feb 2025 – Present**

#### **Data Analyst Engineer**

- Data Optimization: Cleaned, transformed, and validated structured datasets to improve data quality and reliability by 15%
- Statistical Analysis: Performed Exploratory Data Analysis (EDA) using Python to identify trends, patterns, and anomalies in complex business datasets
- Visualization: Developed analytical reports and interactive Power BI/Tableau dashboards to support operational and strategic decision-making for UK stakeholders
- Stakeholder Collaboration: Partnered with cross-functional teams to translate business requirements into actionable data insights and technical solutions

### **HCL Technologies Pvt. Ltd**

**India**

**Mar 2022 – Dec 2023**

#### **Graduate Engineer Trainee**

- Client & Context: Provided data-driven solutions for a major US-based Healthcare client, focusing on Clinical & Operational analytics to drive hospital outcomes improvement
- Clinical Analytics: Analyzed large-scale clinical datasets using SQL and Python to identify performance gaps and support hospital-wide clinical outcomes improvement initiatives
- Operational Intelligence: Developed automated reporting frameworks to monitor hospital operational efficiency, reducing data processing time for US healthcare administrators
- Predictive Insights: Applied statistical modeling and regression-based frameworks to patient data to forecast healthcare trends, ensuring high data integrity and compliance
- Data Infrastructure: Leveraged ServiceNow and Splunk to monitor data pipelines and system performance, ensuring 24/7 data availability for critical healthcare platforms
- Collaborative Reporting: Generated high-level performance reports and coordinated with international technical teams to resolve data-related incidents within strict SLAs

## **Key Achievements**

- Urban Air Quality Prediction: Developed a regression-based machine learning framework to predict air quality patterns based on environmental variables
- Healthcare AI - Skin Cancer Detection: Engineered a Deep Learning model for the identification and detection of skin cancer, demonstrating early expertise in healthcare data applications
- Seismic Pattern Analysis: Conducted statistical analysis on earthquake patterns in Japan to derive meaningful geological insights

## **Education & Training**

**University of Hertfordshire**  
**MSc Data Science and Analytics**

**United Kingdom**      **Jan 2024– Jan 2026**  
**First class with Distinction**

- Focus: Applied data science and analytics, Data Mining, Neural Networks and Machine Learning, Foundations of Data Science
- Project: Urban Air Quality Prediction Using Machine Learning

Description: Developed a regression-based machine learning framework to predict urban air quality patterns by analysing large-scale environmental datasets and complex atmospheric variables

## **Certifications & Awards**

- [Microsoft Azure Fundamentals \(AZ-900\)](#)
- [Python for Data Science – IBM](#)
- Power BI and SQL Specialist – FLM

## **Lifelong Learning & Contributions**

- Contributor to machine learning frameworks focused on predictive analytics for healthcare diagnostics and urban environmental sustainability
- Advocate for data democratization by translating complex healthcare datasets into intuitive, stakeholder-ready Power BI and Tableau dashboards
- Continuous learner in cloud-based data operations and secure data handling practices to support critical US-based healthcare infrastructure
- Committed to data integrity and excellence through proactive system monitoring and the implementation of automated data validation protocols