

# HEMANTH KUMAR REDDY BOGATHI

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## SUMMARY

Detail-oriented Data Science graduate with hands-on experience in data engineering, ETL/ELT pipelines, and cloud-based solutions (Azure). Skilled in SQL, Python, Power BI, and APIs, with a proven ability to transform raw data into actionable insights.

## Education

Teesside University, UK  
MSc Data Science With Advanced Practice

Sep 2023 – May 2025

## Relevant Coursework

Data Structures	Algorithms Analysis	Artificial intelligence	Machine Learning	Database Management
Software Methodology	Project Management	Computer Architecture	Data Analytics	Data Visualization

## Experience

### Junior Software Intern, People Tech Group

Hyderabad, INDIA

Aug 2022 – Aug 2023

- Specialized in designing and implementing gauges using C++, QT/QML, XML, and SVG rendering technologyl specialize in developing animations for instrument panel cluster Displays, Heads-Up Displays, and Climate screens for General Motors using the QT creator with C++, also create simulations for testing and conduct validation on Windows and hardware platforms like QNX.
- Enhanced UI functionality in automotive systems.
- Analyzed development for critical issues using debugging for Windows and QNX Momentics environments to inform strategic decision-making and drive business growth.
- Collaborating closely with functional teams like Design and Static Code analysis to ensure seamless integration.

### Data Analyst Intern And Visualization Developer, Think Pacific (Remote)

Sep 2024 – Jan 2024

- Designed and developed interactive data visualizations to represent a 10-year impact assessment for Think Pacific's community-based projects using Power BI and Tableau.
- Analyzed and processed raw data from multiple project reports to create insightful charts, graphs, and dashboards highlighting key metrics like community engagement, volunteer impact, and project outcomes.
- Enhanced data presentation efficiency by transforming static reports into dynamic dashboards, enabling real-time exploration of project data.
- Collaborated with the Program Manager to translate complex data into visual storytelling, improving stakeholder understanding and decision-making processes.

## Portfolio Projects: GitHub Profile

### Supermarket Sales Analysis (SQL) | Data Analyst Project

- Performed end-to-end data cleaning and preprocessing in MySQL by addressing missing values, eliminating duplicates, and enforcing consistent naming conventions for improved data quality and reliability.
- Created complex SQL queries to analyze total sales, revenue fluctuations, and identify high-performing products and store branches over time.
- Applied customer segmentation strategies and performed statistical analysis to gain insights into customer behavior, helping shape data-driven business recommendations for marketing and sales teams.

### GCP Real-Time E-Commerce Data Pipeline

- Real-Time Streaming Pipeline: Designed and implemented an event-driven architecture using Google Pub/Sub and Dataflow (Apache Beam) to ingest, process, and store e-commerce transactions instantly.
- Synthetic Event Simulation: Developed a Python-based framework to generate and simulate customer interactions, purchase events, and abandoned carts for comprehensive testing.
- Data Processing and Enrichment: Cleaned and transformed streaming data before loading into BigQuery, applying business logic enhancements for real-time insights.
- Dashboard Creation: Built interactive visualizations in Looker Studio to monitor user behavior, purchase patterns, and revenue trends dynamically.
- Cloud Computing Expertise: Gained hands-on experience with serverless GCP services, optimizing pipeline stability and ensuring scalability with auto-scaling architecture under high data loads.

### Data Warehouse & ETL Pipeline Project | PostgreSQL, Python, Airflow

- Designed a scalable star schema data warehouse architecture in PostgreSQL to support analytical querying across different data domains.
- Developed automated ETL pipelines in Python to extract raw data, perform transformations, and load it efficiently into the warehouse.
- Leveraged Apache Airflow to orchestrate and schedule ETL jobs, with monitoring and logging features for workflow reliability and error handling.

### Excel Dashboards for Business Insights

- Aggregated diverse data sources including orders, financials, customer addresses, and satisfaction surveys into a single, structured Excel dashboard for high-level analysis.
- Designed interactive dashboards using pivot tables, dynamic slicers, and advanced charts to create a seamless user experience and enable intuitive filtering of insights.
- Presented real-time performance metrics like revenue growth, customer trends, and order frequency, allowing management to make quicker, data-supported decisions.

## Technical Skills

Data Analysis & Visualization: Python (Pandas, NumPy, Matplotlib), SQL, Power BI, Tableau , NLP

Database: MySQL, PostgreSQL, ETL

Cloud Platforms: GCP, AWS

Programming Languages: Python, C++, Java

Tools: Excel, Jupyter, GitHub, Kubernetes, QT/QML, XML, Apache