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**Career Objective:** Motivated Quality Assurance Specialist with 3+ years of experience in the automotive industry, eager to transition into a Data Engineering role driven by a passion for data-driven solutions. Experienced in data analysis, process optimization, and problem-solving, with a strong desire to build scalable data pipelines, improve data quality, and optimize data workflows. Currently enhancing skills in Python, SQL, ETL processes, and cloud technologies to contribute to robust data infrastructure and support business intelligence. Excited to leverage analytical expertise and technical skills to drive innovation in data engineering.

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**Work Experiences:**

**Company:** Panasonic Automotive Systems Czech, s.r.o, Pardubice, Czech Republic

**Position:** Quality Assurance Specialist **Nov 2021 – Present**

**Work responsibilities:**

* **Data-Driven Quality Control:** Conducted in-depth inspections and leveraged data analysis to ensure compliance with industry standards, identifying trends in defects early in the production cycle to improve overall product quality.
* **Process Optimization through Data Insights:** Analysed manufacturing processes using statistical techniques, identified inefficiencies, and implemented data-backed solutions to reduce defects, improve reliability, and optimize costs.

* **Root Cause Analysis and Problem Solving:** Utilized analytical frameworks such as 8D, 5 Whys, and Fishbone to investigate data anomalies, uncover root causes of quality issues, and drive corrective actions based on insights.

* **Supplier Data Analysis & Compliance Monitoring:** Collaborated with suppliers to track quality performance through data audits, established KPI-driven quality standards, and ensured compliance through data-backed assessments.
* **Data Collection and Analysis:** Collected and analysed production data using statistical tools, created reports and dashboards to monitor key quality metrics, and provided actionable insights to drive continuous improvement initiatives.

**University:** University of Pardubice, Pardubice, Czech Republic. **2020-2021**

**Position:** Research Assistant (Under Erasmus Traineeship program)

**Project Title:** “Research and development of an energy-efficient improvement system for the electrical vehicle using fuzzy logic.

**Research work**:

* Modelled and implemented a prototype simulation model for an electric vehicle by implementing a fuzzy logic-based energy management system that optimally controls the power distribution among the vehicles various systems, such as the motor, battery, and regenerative braking system.
* Developed a drive train system and motor (BLDC) control system for a car applying fuzzy logic algorithm to real-time sample data such as distance, driving conditions, battery status (SOC, SOH, etc..) and user behaviour to dynamically adjust the power allocation for maximum efficiency. For further improvement, a Klaman filter is used in the system to get a more efficient result.

**IBM Data Analyst Professional Certification Course:**

* Completed various course modules in the IBM Data Analyst Professional Certificate, which guided me to acquire adequate skills for data analysis roles. Developed proficiency using industry-leading tools such as Python, SQL, and Tableau for data manipulation, cleansing, and visualization techniques. I also acquired hands-on experience in analysing real-world datasets to derive actionable insights, make data-driven decisions, and effectively communicate findings to stakeholders.
* Acquired in-depth knowledge of database querying and structured query language (SQL), facilitating efficient extraction of relevant data for analysis.

**Tools Used:** Python, SQL, Jupyter Notebook, IBM Watson Studio, IBM Cloud, IBMDb2, IBM Cognos Analytics.

**Gowtham Raj Nallathambi**

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[LinkedIn](https://www.linkedin.com/in/gowtham-raj-nallathambi-112429144?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=android_app)

[](https://github.com/Gowtham933) [GitHub Repository](https://github.com/Gowtham933)

**Work Authorization:**

(Holds a valid Czech work permit with long-term eligibility to work in the Czech Republic)

**Education:**

**Master of Science in Computerised Control of Electrical Technologies**

Riga Technical University, Riga, Latvia

**(2018 – 2021)**

**Bachelor of Engineering in Electrical and Electronics**

RMK Engineering College, Tamil Nadu, India

**(2012 – 2016)**

**Technical Skills for QMS**

* Root Cause Analysis (8D and 5 whys)
* Quality Management Systems (QMS)
* Statistical Process Control (SPC)
* Measurement system analysis (MSA)
* Quality inspection
* FMEA/ PPAP
* SAP S/4HANA
* Computer-Aided Inspection (CA)
* Fault Tree Analysis (FTA)
* Agile Methodologies
* MATLAB

**Programming Language:**

* SQL/ NoSQL/Python/DAX

**Analytical and Data Engineering Skills:**

* Exploratory Data Analysis (EDA)
* Data Wrangling
* Data Ingestion
* Web Scraping
* Data warehousing (Snowflake, DuckDB)
* Data Modelling (RDBMS)
* Data Orchestration (Apache Airflow)
* Extract Transform & Load (ETL Process)
* OLAP & OLTP process.
* Machine Learning
* CI/CD

**Software Proficiency:**

* Advance Excel (VBA- Macros, Power Pivot)
* Tableau/ Power BI
* Big Data (Apache PySpark)
* Version Control System (Git)
* Power Query

**Soft Skills:**

* Excellent communication skills
* Teamwork & Collaboration
* Time management
* Attention to Details
* Problem solving Skills
* Business Acumen
* Curiosity and Continuous learning

**Certifications Links:**

* Exploratory [data](https://coursera.org/share/d86593f1fa2c880ec227d83eebc81af2) analysis (EDA)
* [Databases and SQL for Data Science with Python (IBM)](https://www.coursera.org/account/accomplishments/certificate/2WC26WBPDMP8)
* [Data Analysis and Visualization Foundations Specialization (IBM)](https://www.coursera.org/account/accomplishments/specialization/certificate/LBZ5ZJTALS4L)
* [Python Project for Data Science (IBM)](https://www.coursera.org/account/accomplishments/certificate/XQ8TUWRGCVL3)
* [Python for Data Science, AI & Development (IBM)](https://www.coursera.org/account/accomplishments/certificate/XBDMTZL2MK25)
* [SQL Fundamentals Course](https://www.sololearn.com/Certificate/1060-13549360/pdf/)
* [Extract, Transform and Load Data in Power BI](https://coursera.org/share/a483d8665e62f4a6a13b05ce87767110)
* [Harnessing the Power of Data with Power BI](https://www.coursera.org/account/accomplishments/records/S2DQUEZS7879)

**Language Proficiency:**

* English (Advance level)
* Czech (Elementary)

**Portfolio Showcase Projects for Analytical & Data engineering skills:**

* **Project** Title: Discount Mart (Sales and Profit Analytics)

**(Software used:** Jupyter Notebook, Tableau)

Discount Mart is a small supermarket. Created a dashboard to track how well Discount Mart is doing for this year (in terms of Sales, Profit and Quantity Sold). Also chats based on how well categories are performing as well as different regions. Assumes that most customers buy 2 or more products per basket/order but would like this confirmed by the data. (Noted that Profit is 30% of the selling price.)

(**Dashboard Link:** [**click here**](https://public.tableau.com/views/DiscountMartSalesAnalyticsGowthams/Dashboard1?:language=en-US&:sid=&:display_count=n&:origin=viz_share_link))

* **Project Title:** Supply Chain Data Analysis & Performance Evaluation

Transformed raw supply chain data into actionable insights through **Exploratory Data Analysis (EDA)** and **hypothesis testing**, uncovering key trends and inefficiencies. Designed a **data warehousing solution with DuckDB**, enabling faster query performance. Leveraged **Python, PySpark, and SQL** for data preprocessing. Visualized findings using **Seaborns and Matplotlib**, driving data-driven decision-making to improve **Inventory turnover ratio**, **Order accuracy rate**, **on-time delivery rates and cost efficiency**.

(**Project Link:** [**click here**](https://github.com/Gowtham933/Supply-chain-Data-Analysis-Project/tree/main)**)**

**GitHub Repository Works:**

**Repo link:** [**click here**](https://github.com/Gowtham933)

Showcased diverse expertise in my GitHub repository like data analysis, data engineering, and programming by developing and contributing to projects, including

* **Exploratory Data Analysis (EDA):** Built Python scripts for analysing and visualizing datasets, transforming raw data into actionable insights that drive business decisions.
* **Hypothesis Testing:** Conducted hypothesis testing to validate assumptions, uncover data-driven insights, and make informed business recommendations**.**
* **Data Engineering Pipelines**: Developed efficient **ETL workflows** using Python and SQL, automating the extraction, transformation, and loading of large datasets.
* **Custom Algorithm Development**: Designed custom algorithms and automation scripts, showcasing strong problem-solving and coding abilities.
* **CI/CD Workflow Automation**: Implemented **CI/CD pipelines** using **GitHub Actions and YAML** to automate testing, code linting, and deployment, ensuring high-quality code and faster iteration cycles.
* **Machine Learning - Object Detection**: Built an **object detection model** using deep learning frameworks, improving image processing accuracy and contributing to real-time data analysis solutions.
* **API Integrations & Data Extraction**: Integrated with multiple **RESTful APIs**, enabling seamless data exchange, real-time processing, and automation.
* **Multi-Format Data Handling**: Proficient in handling **CSV, JSON, XML, Parquet**, and other file formats, ensuring smooth data transfer and processing across various systems.
* **Docker & Containerization**: Created and deployed **Docker images**, simplifying application deployment and enabling consistent environments for developers.

**Reference:** Request on demand.