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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 Experience:**

**Company:** Panasonic Automotive

**Location:** 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.

**Project 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**

* 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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Pardubice, Czech Republic

[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) <https://github.com/Gowtham933>

**Work Authorization:**

(Holding valid Czech Work Permit)

**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)
* Corrective and prevention action
* Statistical Process Control (SPC)
* Measurement system analysis (MSA)
* Quality inspection
* FMEA
* SAP S/4HANA
* PPAP
* Computer-Aided Inspection (CA)
* Fault Tree Analysis (FTA)
* Agile Methodologies
* MATLAB

**Analytical and Data Engineering Skills:**

* Exploratory Data Analysis (EDA)
* Data Wrangling
* Data Ingestion
* Web Scraping
* Data warehousing (Snowflake, Click House)
* Data Modelling (RDBMS)
* Data Orchestration (Apache Airflow)
* Extract Transform & Load (ETL Process)
* OLAP & OLTP
* Machine Learning

**Programming Language:**

* SQL
* NoSQL
* Python
* DAX

**Software Proficiency:**

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

**Soft Skills:**

* Excellent communication skills
* Time management
* Attention to Details
* Problem solving Skills
* Adaptability & Flexibility

**Certifications:**

* 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)

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

Project Title: Discount Mart (Sales and Profit Analytics)

**Programming Languages:** Python

**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: HR Analytics

**Programming Languages:** Python

**Software used:** Jupyter Notebook, Tableau, MySQL

Using Green Destinations survey data set which is a travel agency company. Creating data analytical insightful dashboard to help HR to figure out any trends and patter for increase in employees leaving (attrition). To know what the attrition rate is (% of people who have left) by considering factors like age, years at the company and income play apart in determining if people will leave or not.

 (**Dashboard Link:** [**click here**](https://public.tableau.com/views/HRANALYTICSDASHBOARD_17078142880950/Dashboard1?:language=en-US&:sid=&:display_count=n&:origin=viz_share_link))

Project Title: EDA Sales analysis for Automobiles.

Programming Language: Python

Library Used: Pandas, NumPy, Seaborn, Matplotlib, Plotly.

This project analyses automobile sales around the world to understand sales trends and

patterns in the market. The data is collected from Kaggle, and the following step-by-step.

operations are performed:

* Import, modified and Load (Clean, handling missing values & duplicates),
* Descriptive Summary of Data,
* EDA analysis (Univariate Analysis, Bivariate Analysis, Multivariate Analysis),
* Sales of Yearly, Quarterly, monthly, and weekly
* Key Insights of the Analysis.

**(Project link:** [**click here**](https://anaconda.cloud/share/notebooks/f8f02458-fe0d-444c-8f20-91e5292e4c6b/overview)**)**

**GitHub Repository: (**<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:** Designed Python scripts to analyse and visualize datasets, providing actionable insights.
* **Data Engineering Pipelines:** Built ETL workflows using Python and SQL for efficient data processing.
* **Algorithm Development:** Created custom algorithms and automation scripts demonstrating problem-solving and coding skills.

**Reference:** Request on demand.