Chennai

MADHAVAN VIJAYA KUMAR

IT ANALYST

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PROFILE

I am a IT Analyst at GI Scripts with over 3 years of total experience, including significant work in Process Planning and Data Handling. Having almost 1 year of experience in Data analysis, visualization, data integration, ETL/ELT processes, and building automated pipelines in GI Scripts. Then 2.3 years of experience in creating process plans, data visuals, SCM, technical analysis and proactive management in TVS motors. I excel in data wrangling using Python, developing efficient SQL queries in Snowflake, and creating insightful Power BI reports. My experience in Data handling has given me a strong foundation in supply chain management, process analysis, time series analysis, product development and historical data analysis in the process management platforms.

TECHNOLGIES

- PL: Python (NumPy, Pandas), SQL
- Visualization : POWER bi, Tableau, Dash with Plotly, Matplotlib, Seaborn
- DB: Snowflake & MySQL
- ETL: Airflow and with containers Docker
- REST API and Django

EDUCATION

B.E
AMS ENGINEERING COLLEGE
NAMAKKAL
CGPA - 7.8

DME
NACHIMUTHU POLYTECHNIC
POLLACHI
CGPA - 7.9

10TH - STD
GOVT BOYS SCHOOL
UDUMALPET
92 %

LANGUAGES

- TAMIL
- ENGLISH
- KANNADA

WORK EXPERIENCE

GI SCRIPTS — 11 MONTHS
IT ANALYST

PROJECTS

PROACTIVE MANAGEMENT PLATFORM POWER BY AI

The platform enhances predictive capabilities for engineering and quality assurance teams by identifying and resolving product integrity issues, such as safety risks and recalls. It integrates diverse data sources to transform chaotic data into actionable insights.

Roles and Responsibilities :

- Design and maintain real-time data ingestion pipelines from S3 to Snowflake using Snowpipe, and optimize SQL queries for data transformation.
- Build Power BI dashboards for real-time metrics, monitor ETL pipeline performance, troubleshoot issues, and ensure timely data delivery.

Key Skills and Technologies: Amazon S3, Snowflake, Snowpipe, SQL, Power BI

PREDICTIVE MAINTENANCE FOR MANUFACTURING

This project develops a Predictive Maintenance solution using machine learning to anticipate equipment failures and enhance operational efficiency in manufacturing. By analyzing historical and real-time data, the platform shifts maintenance from reactive to proactive, reducing downtime, costs, and improving overall productivity.

Roles and Responsibilities :

- Extract and manage historical and real-time machinery data using SQL, ensuring data integrity for analysis.
- Clean, merge, and transform raw data using Python and Pandas, ensuring data quality for analysis and demand forecasting.
- Develop interactive dashboards with Plotly on Dash and Power BI, and automate data workflows using Airflow and Docker for efficient supply chain insights.

Key Skills and Technologies: Python & Pandas, Plotly on Dash, Airflow and Docker, Power BI

TVS MOTORS — 2.3 YEARS
ENGINEER - PROCESS PLANNING AND DATA HANDLER

- Develop vehicle production plans using SAP based on customer data and demand patterns.
- Plan & coordinate export production schedules using MS Project, ensuring alignment with business objectives.
- Create & analyze Power BI reports to gain insights into customer data & production metrics.
- Identify & resolve bottlenecks using data analysis techniques to enhance process efficiency.
- Design cost-effective process plans leveraging insights from historical data.
- Analyze defect trends and implement preventative measures using Simul8 to ensure product quality.
- Use Power BI insights to evaluate spare part demands and proactively reduce defect rates.
- Monitor and report on weekly vehicle demand trends in Excel to support informed production adjustments.
- Collaborate with cross-functional teams to ensure production schedules align with supply chain capabilities.
- Utilize data analytics tools to drive continuous improvements in process planning strategies.
- Forecast material requirements based on production schedules and customer demand in coordination with supply chain teams.