# GAURAV N. GALPHADE

**Data Engineer**

Aurangabad (ChhatrapatiSambhajinagar)

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## SUMMARY

Aspiring Data Engineer with over 3 years of experience as a Production Engineer, holding a strong foundation in Mechanical Engineering. Recently transitioned into the field of Data Engineering with a comprehensive certification in data technologies. Proficient in SQL, Python, Azure Data Factory, and Power BI. Keen to leverage engineering expertise and newly acquired data skills to drive data-driven projects and solutions.

## QUALIFICATIONS

**Certification course in Data Engineering** : 2023
Duration – 9 months

**Bachelor of engineering(Mechanical)**
Dr. BAMU University, Aurangabad : 2016

**Diploma in Mechanical Engineering**
Hitech Engineering College, Aurangabad : 2012

## PROJECTS

**ETL Pipeline for E-commerce Data**

- **Developed an ETL pipeline**: Designed and implemented an ETL (Extract, Transform, Load) pipeline to handle e-commerce data. This involved extracting raw data from various web sources, transforming it using Python scripts and SQL queries to ensure consistency and accuracy and loading the cleaned data into a PostgreSQL database for storage and further analysis.

- **End-to-end data pipeline using Azure Data Factory**: Created a comprehensive data pipeline leveraging Azure Data Factory to automate the integration and processing of data from multiple sources. This pipeline orchestrated data movement and transformation tasks, ensuring seamless data flow and real-time updates across the system.

- **Power BI dashboard development**: Developed an interactive Power BI dashboard to visualize key data insights and trends from the e-commerce data. This dashboard provided stakeholders with intuitive, data-driven visualizations, enabling better decision-making, and demonstrating the tangible impact of data engineering solutions on business performance.

- **Data Quality and Integrity Checks**: Implemented rigorous data quality and integrity checks throughout the pipeline to ensure the accuracy and reliability of the data. This included handling missing values, data validation, and error handling mechanisms.

- **Performance Optimization**: Optimized the ETL processes for efficiency, reducing the time taken for data extraction, transformation, and loading. This was achieved by optimizing SQL queries, using parallel processing techniques, and fine-tuning the Azure Data Factory settings.

- **Documentation and Collaboration**: Documented the entire pipeline process, including the architecture, data flow diagrams, and code explanations. Collaborated with cross-functional teams to gather requirements, provide updates, and incorporate feedback, ensuring the solution met business needs.

- **Scalability and Future Enhancements**: Designed the pipeline with scalability in mind, allowing for easy integration of additional data sources and new business requirements. Proposed future enhancements to further improve the pipeline's performance and capabilities, such as incorporating machine learning models for predictive analytics.

## TECHNICAL SKILLS

- Programming Languages: **SQL, Python**

- Data Integration**: Azure Data Factory**

- Data Visualization: **Power BI**

- Operating Systems: **Linux**

- Tools & Technologies: **Apache Hadoop**

## WORK EXPERIENCE

**Cosmo First Ltd. Shendra, Aurangabad**                                    Apr 2020 – Apr 2023

**Role: Production Engineer(BOPP and TEC)**

### RESPONSIBILITIES

- Managed and optimized extrusion, casting, stretching, annealing, and slitting processes.

- Implemented quality control measures; ensured compliance with standards.

- Analyzed production data for improvements, suggested enhancements.

- Maintained production records; prepared and submitted management reports.

- Led continuous improvement initiatives, enforced safety protocols.

- Ensured quality raw materials; collaborated with suppliers on quality issues.

**Dhananjay Metalcrafts Pvt. Ltd. Aurangabad**                              Apr 2017 – Aug 2018

**Role: Quality Engineer**

### RESPONSIBILITIES

- Develop and implement quality control processes and procedures.

- Monitor production processes to ensure they adhere to established quality standards and identify, document any deviations from quality standards and initiate corrective actions.

- Maintain records of inspection results and quality control activities.

- Acknowledge and implement KAIZEN, TPM, 5S on the floor as well.

- Prepare and maintain records of PPAP, SPC, QMS related documents.

- Investigate and analyze the root causes of quality issues.

- Collaborate with production, engineering, and other departments to resolve quality problems.

- Implement and track performance improvement projects.

## ADDITIONAL INFORMATION

- **Strong Analytical and Problem-Solving Skills**: Always keen to analyze complex data sets and identify patterns, trends, and anomalies. Demonstrates meticulous approach to detail in all aspects of work, ensuring accuracy and precision. Skilled in breaking down complex problems into manageable tasks and developing innovative solutions to address them. Experienced in using analytical tools and techniques to derive meaningful insights and drive data-driven decision-making.

- **Excellent Communication and Teamwork Abilities**: Skilled in effectively communicating technical concepts to both technical and non-technical audiences. Eager to collaborate with cross-functional teams, including data scientists, engineers, product managers, and business analysts. Able to understand and translate business requirements into technical ideas while ensuring clarity and alignment with project goals. Enthusiastic about fostering a collaborative work environment and keen on facilitating knowledge sharing among team members.

- **Active Participant in Online Data Engineering Communities and Forums**: Engages regularly with the broader data engineering community through online forums, discussion groups, and professional networks. Keeps abreast with the latest trends, technologies, and best practices in the field. Actively contributes to discussions, shares knowledge, and seeks advice from peers and industry experts. Participation in these professional communities fosters ongoing learning, networking, and ensures staying at the cutting edge of data engineering advancements.

**Gaurav N Galphade**