Venkata Pavithra Chaganti

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# PROFESSIONAL SUMMARY

# **Information Technology graduate** with expertise in Oracle database development, including data modeling, SQL, PL/SQL, unit testing, and performance optimization. Skilled in ETL, data warehousing, query optimization, and Agile methodologies. Proficient in designing scalable database solutions, ensuring data integrity, performance tuning (PTO), and cloud integration. Actively seeking opportunities to leverage my skills in database development and data engineering.

# EDUCATION

## Master of Science in Information Technology August 2023-December 2024

University Of Cincinnati, Cincinnati, Ohio

**Bachelor of Technology in Information Technology**

Bapatla Engineering College, Bapatla, India

**TECHNICAL SKILLS**

**Databases**: Oracle SQL, PL/SQL, Data Modeling, Database Architecture

**ETL & Data Warehousing**: Dimensional & Relational Data Modeling, Performance Tuning

**PL/SQL Development**: Cursors, Exception Handling, Collections, Merge, Analytics Functions, Views, Triggers, Dynamic SQL

**Tools & Platforms**: Azure Data Factory, Databricks, Power BI, ServiceNow, Apache Kafka, Apache Spark

**Programming**: Python, JavaScript, PowerShell

**Development**: Agile (Scrum, Kanban), Unit Testing

**Cloud & Integration**: Azure, AWS, REST/SOAP APIs

**Software & OS**: Linux (Ubuntu), Windows, Microsoft Office

**Kubernetes & Cloud**: Expertise in Kubernetes, Cloud environments, Troubleshooting Networking and Hardware

**CI/CD**: CodeCloud, Jenkins, GitHub

**Scripting & Command-Line**: Comfortable with scripts and command-line interfaces

**Software Updates & Optimization**: Deploy software updates, firmware upgrades, OS and code upgrades, optimization, and monitoring

# PROFESSIONAL EXPERIENCE

## Tata Consultancy Services (TCS): Assistant System Engineer and Trainee: July 2022-July 2023

* Developed and optimized **Oracle database applications** with a focus on **SQL & PL/SQL development**.
* Built **stored procedures, materialized views, and triggers** for efficient data processing.
* Enhanced system performance through **SQL query optimization and performance tuning (PTO)**.
* Worked in **Agile environments**, collaborating on **ETL pipelines and reporting layers**.
* Ensured data integrity and consistency by implementing **data validation, error-handling mechanisms, and indexing strategies** for optimized query execution.

## CIQS Digital: Data Engineer Intern: July 2021-June 2022

## Description:

## Developed dashboards for MBA INSITE Product teams across all markets where Shell owns/operates fuel sales data. The business uses a data-driven approach to manage fuel sales across markets, leveraging Power BI for insights.

## Responsibilities:

* Designed and managed **data pipelines** for fuel sales analytics using **Azure & Power BI**.
* Created **reusable database objects**, improving **data governance and compliance**.
* Conducted **unit testing** and optimized **SQL queries** for performance

**Exposes Data Labs:** **Software Developer Intern**  **Jan 2021-May 2021**

* Leveraged cybersecurity best practices, such as Python, HTML, CSS, and JavaScript, to develop MSG Secure, ensuring robust encryption and protection against cyber threats.
* Reduced processing duration by 20% and increased user engagement by 25% by creating interactive web interfaces.
* Led a team in developing MSG Secure, showcasing leadership in cybersecurity and technical proficiency.

# ACADEMIC PROJECTS

## Student Performance Prediction System

* + Collected and integrated multiple data sources (academic and personal) to build a predictive model for student performance.
  + Built a web-based interface using HTML, CSS, Bootstrap, JavaScript, and React.js for seamless user interaction.
  + Selected machine learning algorithms in Python, achieving 80% accuracy in predicting academic outcomes.
  + Analyzed prediction results and provided actionable insights to enhance academic performance and educational outcomes.

## Real-time Traffic Data Processing System

* + I have built a data pipeline for real-time traffic data ingestion, processing, and analysis.
  + Streamed data using Apache Kafka and processed it with Apache Spark and Azure Databricks.
  + Stored data in Azure Data Lake and visualized insights with Power BI.
  + Applied machine learning to predict traffic patterns and suggest optimal routes.

**Customer Sentiment Analysis System**

* + Collected and preprocessed customer feedback data from various sources to build a sentiment analysis model.
  + Developed a user-friendly dashboard using Flask and JavaScript to display real-time sentiment analysis results.
  + Applied natural language processing (NLP) techniques in Python, achieving 85% accuracy in sentiment classification.
  + Analyzed sentiment trends to provide insights for customer satisfaction improvements and marketing strategies.

Technologies: Apache Kafka, Apache Spark, Azure Databricks, Azure Data Lake, Power BI, Python.

# CERTIFICATIONS

* + Microsoft AZ900, Microsoft AWS Cloud Practitioner, Python, Linux, Machine Learning.