

# Akshitha Sai Modepalli

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## SUMMARY

Akshitha, a Motivated and detail-oriented professional with over two years of experience as a Software Engineer at BizDoc Software Solutions, where I contributed to software development and data-driven solutions. Currently pursuing a master's degree in business Analytics, deepening expertise in data analysis, visualization, and strategic decision-making. Adept at bridging the gap between technical solutions and business objectives, with hands-on experience in programming, ETL processes, and cloud technologies. Passionate about transforming data into actionable insights to drive business performance and efficiency.

## CORE SKILLS

- **Programming Languages:** Python, SQL
- **Data Visualization:** Power BI, Tableau, Microsoft Excel
- **Database Management:** MySQL, Microsoft SQL Server
- **Cloud Platforms:** Amazon Web Services (AWS)
- **Packages & Tools:** Pandas, NumPy, PySpark
- **Other Skills:** GitHub, PyCharm, VS Code, ETL Development, Business Analysis, Agile Methodologies, Data Cleaning & Transformation

## WORK EXPERIENCE

### Software Engineer

#### BizDoc Software Solutions

*January 2021 – August 2023*

- Developed and maintained scalable web applications and internal tools, improving operational efficiency and user experience.
- Collaborated with cross-functional teams to gather requirements and implement data-driven features.
- Wrote and optimized SQL queries and Python scripts to automate business processes and support data integration.
- Participated in ETL pipeline development for client projects, ensuring high data quality and accuracy.
- Utilized Git for version control and collaborated through agile project management tools.

## PROJECTS

### COVID-19 Severity Analysis Dashboard

*Tools Used: SQL, Power BI*

- Built an interactive dashboard to track global COVID-19 Active Cases, Deaths, Recoveries, and Mortality Rates.
- Designed a funnel chart to map patient recovery paths and a clustered column chart to compare case severity across countries.
- Used SQL for data extraction, cleaning, and ensuring accuracy for Power BI insights.
- Created visualizations including pie charts, line graphs, heat maps, and decomposition trees for in-depth trend analysis.

### CO2 EMISSIONS PREDICTION

*Tools Used: SQL, Tableau, Python*

- Developed a machine learning project to predict CO2 emissions by vehicles, Utilized data visualization techniques and SQL for data management and analysis. Implemented various machine learning algorithms, including linear regression, k-means clustering, Bayesian linear regression and logistic regression. Conducted correlation and feature selection to identify significant factors of CO2 and Achieved an R-squared value of 0.7218.

## EDUCATION

**Master of Science, Business Analytics (Current GPA: 3.7) |** Lewis University, USA

**DECEMBER 2025**

**Bachelor of Engineering |** Jawaharlal Nehru Technological University, India.

**NOVEMBER 2020**

## CERTIFICATIONS

- SQL ANALYTICS AND BI ON DATABRICKS
- SQL (Intermediate) – HackerRank