

ALESSANDRA RODRIGUEZ

✉ alessandra.rodriguez172@gmail.com | ☎ (717) 626-0225 | 📍 Allen, TX

🔗 [GitHub](#) | [LinkedIn](#)

PROFESSIONAL SUMMARY

Analytical and detail-oriented Computer Science graduate with a strong academic foundation and a passion for discovering insights through data. Skilled in Python, SQL, Excel, Tableau and PowerBI. Experienced in building data projects that involve cleaning, analysis, modeling, and documentation of findings. A quick learner with strong communication skills and leadership experience.

EDUCATION

Texas A&M University – Commerce, TX

B.S. in Computer Science

GPA: 3.94/4.0 – Summa Cum Laude

- President's List (6 semesters), Dean's List (2 semesters)
 - **Leadership:** Internal Affairs Chair, Student Government Association
 - Supervised 20+ student senators and fostered professional collaboration on university initiatives
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SELECTED DATA ANALYTICS PROJECT EXPERIENCE

More projects available on [GitHub](#)

Predicting Depression from Personal Characteristics — *Python (Pandas, Scikit-learn, Seaborn)*

- Analyzed survey data to identify the most accurate predictors of depression using machine learning models
- Applied data preprocessing techniques: missing value handling, outlier removal, feature scaling
- Trained and evaluated classification to optimize prediction accuracy
- Visualized correlations and feature importance to explain model decisions

U.S. Grocery Sales Insights — *SQL*

- Designed a relational database for an imported dataset to manage grocery sales data across regions in the United States
- Used advanced SQL queries (JOINS, subqueries, aggregates) to analyze sales performance by city, employee, and product
- Delivered insights on top-selling items and high-demand regions for business decision-making

Student Performance Analysis — *SQL*

- Conducted exploratory analysis on factors affecting student grades, including study habits and parental education
 - Queried relational datasets using GROUP BY and CASE statements to identify performance patterns
 - Produced actionable findings to support data-informed educational strategies
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CERTIFICATIONS & TECHNICAL SKILLS

Technical Skills

- **Programming:** Python (Pandas, NumPy, Scikit-learn), SQL
- **Tools:** Jupyter Notebook, Excel, VS Code, Microsoft Office
- **Visualization:** Tableau, Power BI

Certifications

- LinkedIn Learning: SQL for Data Analysis, Python Data Analysis, Tableau Essential Training
- Self-Led Course: Excel Data Analysis Full Tutorial (7+ hours)

Soft Skills

- Analytical Thinking • Attention to Detail • Communication • Peer Collaboration • Problem-Solving