

Sukaina D. Alkhalidy

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EDUCATION

East Lansing MI, USA

GPA 3.557

Year Senior

Michigan State University | *East Lansing, MI* | **Graduation Day** May 2026

Bachelor of Science Double Majoring in Data Science and Statistics.

Dean's List Honors (2 consecutive semesters)

East Lansing High School: Diploma

SKILLS

Programming Languages: Python, R Language, and C++.

Python Libraries: NumPy, Pandas, Scikit-Learn, Seaborn, Matplotlib

Big Data and Other Tools: Jupyter Notebook, GitHub, RStudio, Visual Studio Code.

Languages: English and Arabic

Other Skills: Machine Learning, Debugging, Statistical Analysis, Time Management, Teamwork, Data Organization, SQL, Tidy Data.

TECHNICAL EXPERIENCE

Forest Fire Analysis in Portugal ^[OBJ]

2024 - April 2024

- **Analyzed** wildfire spread using **data preprocessing** and **visualization** (Seaborn, Matplotlib).
- **Applied Linear Regression** and **SVM** models to predict burned area size.
- **Found** temperature and humidity as key drivers, with dataset imbalance affecting accuracy.

Pandemic Impact Analysis ^[OBJ]

October 2023- December 2023

- Analyzed U.S. employment and GDP trends pre- and post-lockdown.
- Identified significant declines in GDP growth and employment rates.
- Learned to focus on aligned datasets after challenges with mismatched timeframes.

(Comparative Analysis of penguin populations) ^[OBJ]

July 2024 - August 2024

- **Analyzed** penguin body mass across three islands using **ANOVA** and **t-tests**.
- **Identified** Gentoo penguins on Biscoe Island as a key factor in weight differences.
- **Found** male penguins weigh **683g more**, aiding survival in cold climates.
- **Concluded** populations were balanced, but **Torgersen Island** required further research.

SpartaHack X – Hypertension Risk Calculator

February 2025

- **Developed** a logistic regression model in **Python** to predict hypertension risk based on **Age, Cholesterol, and BMI**.
- **Built** an interactive **GUI** for user-friendly risk assessment.

CERTIFICATIONS: Advanced Python: Working with Databases| LinkedIn|