

Jeffery Owusu-Agyemang

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EDUCATION

Grambling State University – Grambling, Louisiana, USA

Graduating May 2028

Major: Computer Science and Data Analytics

Relevant Coursework: Computer Science I, Calculus, Object-Oriented Programming, Intro to Web Development (HTML & CSS), Introduction to Data Analytics, Intro to Natural Language Processing.

EXPERIENCE

Research Analyst – Kumasi, Ghana.

Oct 2023 – Dec 2023

- Conducted in-depth research on areas lacking night-time visibility by collecting and analyzing data from surveys.
- Utilized problem-solving skills to evaluate impact on residents.
- Compiled comprehensive reports detailing findings with data visualizations and suggested solutions to address identified problems and presented findings to stakeholders.

PROJECTS

Sentiment Analysis Program

- Developed an interactive sentiment analysis for customer reviews program in Python, utilizing Pandas, Numpy and scikit-learn for data handling and model building.
- Classified customer reviews as positive or negative with an accuracy score of 77%.
- Enabled real-time, multi-review input, allowing users to receive instant sentiment predictions and feedback on each entry
- Optimized data processing with Pandas and NumPy to streamline model performance and enhance user experience

Classic Snake Game

- Designed and implemented a classic snake game using Python and Tkinter for the graphical interface for an engaging, interactive experience.
- Integrated a score leaderboard to track high scores, enhancing competitiveness and user engagement.
- Optimized GUI elements to create a responsive, visually appealing interface in Tkinter.

Vigenère Cipher

- Developed a Vigenère Cipher encryption system in Python with advanced text processing capabilities and case-sensitive character handling.
- Engineered robust encryption algorithms using modular arithmetic and string manipulation, ensuring 100% text structure integrity.
- Designed and implemented a user interface with comprehensive error handling for seamless text encryption/decryption operations.

GUI Password Generator

- Developed an interactive customizable password generator using Python & Tkinter, enabling users to specify password length and option to include numbers and special characters, enhancing security with dynamic options.
- Implemented real-time password generation with a sleek, user-friendly GUI, providing visual feedback for an interactive experience that improves usability and security.

SKILLS

- **Programming languages:** Python
- **Worked with:** HTML5, CSS 3, JavaScript.