Samuel Goodman

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EDUCATION

Bachelor of Science in Computer Science Aug '24

Florida A&M University

Related Coursework: Data structures I and II, Program file & data structures, Data Mining, Design and analysis of algorithms, Object-Oriented Programming

KEY SKILLS

Programming Languages: Java, C++, Python, SQL, JavaScript, R
Web Development: HTML, CSS, JavaScript, Node.js, React, Firebase
Machine Learning: Scikit-learn, TensorFlow, Keras, Pandas, NumPy
Databases: SQL, Firebase, MongoDB
Tools & Frameworks: Visual Studio, Git, Docker, Figma
Software Development: API Handling, UX/UI Design, Agile (Scrum), Testing
Data Science: Classification, Regression, Cross-validation, Sentiment Analysis

PROFESSIONAL EXPERIENCE

Mobile Data Analyzer (IT) May '23 - Jun '23

SpectrumX

Utilized data analytics software to optimize network performance & enhance connectivity across Tallahassee. Enhanced campus IT infrastructure planning by leveraging data visualization software, leading to improved efficiency. Boosted network planning efficiency by 20% through workflow optimization using data analysis tools

Forensic Data Analyzer Aug '22 - May '23

Florida A&M University

Employed Python scripts to investigate & identify patterns in fraudulent activities within thousands of phone records, enriching data scrutiny & revealing key insights. Played a pivotal role in developing & implementing security enhancement strategies, leading to a 15% improvement in system resilience, utilizing intrusion detection systems. Played a crucial role in driving a 15% reduction in security incidents through the implementation of updated protocols

PROJECTS

Classification and Model Evaluation

Developed machine learning models for obesity rate classification across U.S. cities using various societal and health factors. The project included model evaluation using techniques such as cross-validation, train/test splits, and statistical evaluation metrics like mean squared error. Applied the scikit-learn library for model implementation and utilized data from Data Commons API for feature extraction. Visualized decision boundaries and key metrics to assess model performance and diagnose potential improvements. The project was implemented using Python libraries such as Pandas, NumPy, and Matplotlib.

Diabetes Classification KNN

Developed a diabetes classification model using the K-Nearest Neighbors (KNN) algorithm. This project involved data preprocessing, feature selection, and model training on the Pima Indians Diabetes dataset. Implemented model evaluation techniques, including confusion matrix and accuracy metrics, to assess the classifier's performance. Visualized data distributions and performance metrics to gain insights into the model's predictions. The project utilized Python libraries such as Pandas, Scikit-learn, and Matplotlib for data manipulation, machine learning, and visualization.