# Sebastian Blanco

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Machine Learning Engineer and Data Scientist with expertise in data analysis, model optimization, automation, and validation.
Proficient in machine learning algorithms, natural language processing (NLP), and full-stack development.
Experienced in developing and deploying machine learning models and pipelines for data-driven decision-making.

## EDUCATION

**Florida State University** **Tallahassee, Florida**
*Bachelor of Arts in Computer Science, Minor in Economics* *August 2024*

Relevant coursework: Object-Oriented Programming, Calculus, Data Structures I & II, Discrete Mathematics, Software Engineering, Operating Systems, Programming Parallel and Distributed Applications, Data Science with Python, Mobile Programming, Full-Stack Development, Quantum Computing

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## PROJECTS

Predictive Modeling with Linear and Quadratic Regressions

- Developed predictive models to estimate insurance costs based on a person's BMI.
- Gained experience in data importation, regression analysis, visualization techniques, and applied models for cost prediction.
- Utilized Pandas to load dataset, Numpy to construct regression models, Seaborn for visualizations, and Scikit-learn for predictive analysis.

Data Classification using Clustering Algorithms

- Implemented and trained Artificial Neural Network (ANN) and k-Nearest Neighbors (kNN) classifiers on the iris dataset to predict iris species based on petal and sepal dimensions.
- Enhanced skills in dataset preparation, model training, and accuracy elevation, achieving 96.67% and 93.33% accuracy for ANN and kNN respectively.
- Loaded iris dataset from Scikit-learn, transformed it into a DataFrame, conducted model training and validation.

Sentiment Analysis on Election Data using NLP

- Conducted a sentiment analysis on tweets related to the 2020 US election using Natural Language Processing (NLP) techniques.
- Acquired proficiency in data cleaning, subjectivity analysis, and sentiment classification.
- Employed Pandas for data collection, Matplotlib for data visualization, and NLTK and TextBlob for text analysis, including subjectivity and polarity.

Location-based Social Web App - Friendly Neighborhood

- Collaborated in a team to design and develop a web application for creating and viewing posts based on zip code.
- Strengthened knowledge in project documentation, requirement-driven planning, and full-stack development.
- Developed backend using Python with Flask templates, authentication and database using Firebase/Firestore, and frontend using HTML/CSS.

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## SKILLS

Languages: English and Spanish
Programming languages: Python, Java, C, C#, C++, HTML/CSS
Data Analysis: Pandas, Numpy, Seaborn, Matplotlib
ML Tools: Scikit-learn, TensorFlow, Keras, NLTK, TextBlob
Developer tools: VS Studio Code, Android Studio, Microsoft Azure, Docker, GitHub, Linux