VALENTINA SANCHEZ

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SUMMARY

Data Science and Machine Learning professional with a strong passion for continuous learning and self-improvement. I am highly self-taught and constantly seek new knowledge and skills to enhance my expertise. Experienced in data wrangling, visualization, and exploratory data analysis, I also possess a strong background in applying statistical models and techniques to extract valuable insights from data. Committed to personal growth and professional development, I am eager to leverage my skills and expertise in solving complex business problems across diverse industries.

SKILLS

LANGUAGES: Python (Pandas, NumPy, Scikit-Learn), SQL, R, Bash, Git

DATA VISUALIZATION: Tableau

MACHINE LEARNING: Linear Regression, Logistic Regression, Classification, kNN, Random Forest, Naive Bayes, K-Means Clustering, Neural

Networks, Keras, Tensorflow, Predictive Modeling, Time Series Analysis, scikit-learn, Hypothesis Testing, A/B Testing

DATA SCIENCE: Data wrangling, Data Visualization, Data Scraping, Data Modeling, Statistics

SOFT SKILLS: Creative, Analytical Thinker, Collaborator, Problem Solver

EMPLOYMENT

DFKI (German Research Center for Artificial Intelligence) | Research Intern in Underwater Robotics | Jul. 2021 - Aug. 2021

- Improved Neural Network accuracy to learn the relation between AUV Dagon's velocities, actuator readings and accelerations by training and validating the developed models.
- Spearheaded the creation of a Machine Learning Model that improved accuracy by 98% using the Python, Keras and Tensorflow libraries.

Cognitus Consulting | RPA Developer Intern | June 2021 - Aug. 2021

- Launched the development of Gallop Intelligent Invoice Automation (GIIA), an Accounts Payable (AP) invoice automation solution.
- Implemented the solution using UiPath's Robotic Process Automation (RPA) capabilities, achieving a 98.5% accuracy rate.

PROJECTS

Anomaly Detection Thesis 2022

- Conducted research on Computer Vision and Optical Flow techniques using OpenCV, Tensorflow, Python.
- Developed an LSTM model to detect anomalies in a cluttered waste environment for a waste management startup, achieving an accuracy of 70.2%.
- Utilized Python and statistical models to forecast time series and improve the safety and efficiency of waste delivery processes.

Exploratory Data Analysis of Titanic Dataset using R

- Performed an in-depth exploratory data analysis of the Titanic dataset to investigate factors influencing survival rates.
- Utilized R programming language for data wrangling, exploratory analysis, and statistical modeling.
- Produced visualizations using **ggplot** and other packages to identify patterns and trends in the data.

Anime Recommender System &

- Created a recommendation system for anime using collaborative filtering and cosine similarity in Python.
- Collected and cleaned data from multiple sources using Pandas and visualized the data using Matplotlib and Seaborn.

EDUCATION

Springboard - <u>Present</u> 6 month intensive bootcamp in Data Science with focus on machine learning, current learning material includes:

Statistical Data Analysis | Python | SQL | Data Analysis

Jacobs University - 2022 Bachelor of Science Robotics and Intelligent Systems | minor Industrial Engineering and Management

LANGUAGES

Spanish | English - Native and Fluent

German - Conversational B2.1

Interests/Hobbies - 3D Modeling with Blender | Crocheting | Barista | Novels