Brian Cervantes Alvarez, Machine Learning Scientist

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LINKS

Data Science Portfolio, LinkedIn, Github

EDUCATION

Aug 2022 — Aug 2023   **M.S. Data Science, Willamette University**   Salem, OR

Aug 2018 — May 2022   **B.A. Mathematics, Linfield University**   McMinnville, OR

KEY ACCOMPLISHMENTS

Jan 2023 — Jun 2023

Predicting Severity Levels in Patients: A Random Forest Approach Based on Symptom Analysis

- Conducted a machine learning study utilizing a random forest approach to predict severity levels in patients, resulting in the development of accurate rules for classifying patients into three severity levels: Mild, Moderate, and Severe.
- Analyzed a dataset of patient symptoms and employed a random forest model for classification, uncovering top features and deriving meaningful rules for severity classification, including the identification of specific symptom combinations that determine severity levels.

Predicting the Province of Origin for Pinot Wines Based on Their Individual Descriptions

- Developed a highly accurate predictive model using a random forest algorithm to analyze critics' descriptions and determine the origin of wines, showcasing proficiency in advanced machine learning techniques.

Boosting Fraud Detection: Enhancing Accuracy with GBM

- Achieved superior fraud detection results by implementing a Gradient Boosting Machine (GBM) model, outperforming the existing model in classifying fraudulent transactions, with potential for further enhancements while ensuring precision.

Customer Behavior Analysis for Return Management

- Applied Logistical and Random Forest models to analyze a partially randomized dataset of customer returns, effectively predicting customer behavior and enhancing understanding of return patterns.
- Extracted valuable insights to assist businesses in optimizing customer satisfaction and making data-driven decisions regarding return management.

EMPLOYMENT HISTORY

Oct 2019 — Present   **Retail Specialist, The North Face, a VF Company**   Woodburn, OR

- Provided exceptional customer service by utilizing strong verbal and written communication skills, actively listening to customer needs, effectively solving problems, and resolving conflicts, resulting in increased customer engagement and satisfaction.
- Transitioned customer-centric communication skills to the field of data science, ensuring clear and impactful delivery of complex analytical insights to stakeholders, thereby facilitating informed decision-making.

PROFESSIONAL CERTIFICATIONS

Mar 2023 — Apr 2023   **Analyze Business Data with SQL, Codecademy**

SKILLS

R/Python/SQL	Expert	ChatGPT/Bard	Expert
Git/Github	Expert	A/B Testing	Experienced
Data Visualization	Expert	Docker	Skillful
Machine Learning	Expert	AWS/Azure	Skillful

LANGUAGES

Spanish	Native speaker	French	A2