ANGELA KHRISTINE VALLEJO

B.S. Computer Science, M.S. Data Science

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EDUCATION

New York Institute of Technology, New York, NY

M.S. Data Science — Sept 2022 – Dec 2023

New York Institute of Technology, New York, NY

B.S. Computer Science — Sept 2018 – May 2022

Cumulative GPA: 3.58

Magna Cum Laude

Relevant Courses: Machine Learning**,** Deep Learning, Probability & Statistics for Data Science, Optimization Methods for Data Science, Big Data Analytics, Database Management, Data Visualization

ORGANIZATIONS & LEADERSHIPS

Vice President, Society of Women Engineers, NYIT — Fall 2019 – Fall 2021

Vice President of Finance, Alpha Sigma Tau Epsilon Iota Chapter — Spring 2021 – Fall 2021

Vice President of Organization Development, Alpha Sigma Tau Epsilon Iota Chapter — Spring 2021 – Fall 2021

Webmaster, Society of Women Engineers, NYIT — Fall 2018 – Fall 2019

EXPERIENCES & PROJECTS

Artificial Intelligence Engineer Virtual Internship — **Nov 2023 – Present**

RadicalX Co.

- Trained an XGBoost Model in Python to measure mouse metrics data between users.
- Implemented Random Forest, LSTM, and Gradient Boosting classification models for personalized and adaptive behavior analysis.

"PocDoc" Healthcare Analysis Chatbot App — **Sept 2023 – Dec 2023**

College of Engineering & Computer Science, New York Institute of Technology, NY

- Applied advanced NLP techniques such as Semantic and Syntactic Similarity to preprocess the dataset of symptoms and enhance the chatbot's ability to analyze user queries.
- Yielded more than 90% accuracy scores after training and implementing ML algorithms (KNN, Gaussian Naïve Bayes, Decision Tree, SVM) using the trained datasets.
- Accomplished the integration of the ML model into a Flutter-based application using Dart.

Emotion Recognition with Support Vector Machine — **Feb 2023 - May 2023**

College of Engineering & Computer Science, New York Institute of Technology, NY

- Successfully detected facial landmarks from CREMA-D dataset using OpenFace Library.
- Extracted and encoded 17 facial action units as the target variable for the SVM model.
- Performed the 5-fold cross validation to assess the performance of the SVM model yielding an accuracy of 68%.

GRIP-2 Handwriting Analysis, Undergraduate Research & Entrepreneur Program — **Feb 2022 - May 2022**

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- Collected a dataset of handwriting images (alphabet characters and symbols) from 6–9-year-olds with GRIP-2 prototype.
- Converted the handwriting image data into binary images/representations by utilizing OpenCV functionality.
- Developed research on handwriting recognition tasks using machine learning models such as Support Vector Machines and Convolutional Neural Networks

Falcon Insurance App — **Feb 2021 - May 2021**

College of Engineering & Computer Science, New York Institute of Technology, NY

- Designed and developed a user-friendly car insurance app (Waterfall Model) using Android Studio and Java.
- Implemented secure password hashing and encryption techniques to safeguard user credentials and user information.
- Utilized SQLite and caching strategies to store and synchronize data locally.

SKILLS

Programming Languages: Python, R, SQL, Java, C++, JavaScript, HTML

Software: RStudio, WEKA, Tableau, Apache Spark, MATLAB, Visual Studio