ANGELA KHRISTINE VALLEJO

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

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EDUCATION

New York Institute of Technology, New York, NY

M.S. Data Science Sept 2022 - Dec 2023 Sept 2018 - May 2022

New York Institute of Technology, New York, NY

B.S. Computer Science Cumulative GPA: 3.58 Magna Cum Laude

ORGANIZATIONS & LEADERSHIPS

Vice President, Society of Women Engineers, New York Institute of Technology

Vice President of Finance, Alpha Sigma Tau Epsilon Iota Chapter

Vice President of Organization Development, Alpha Sigma Tau Epsilon Iota Chapter

EXPERIENCES & RELEVANT PROJECTS

Python Programming Teacher

June 2024 - Present

Fusion Education, Brooklyn, New York

- Improved beginner student role comprehension scores by 90% over 3 months through a modular teaching approach that incorporated Python activities of varying difficulty.
- Implemented Python programming curricula for beginners to advanced levels, focusing on core concepts such as loops, OOP, and algorithms, tailored to diverse learning needs of students.
- Guided students through hands-on projects, including real-world applications like sorting algorithms, data visualization, and basic game development, ensuring a practical understanding of Python principles.

AI Engineer Intern Nov 2023 - Feb 2024

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

- Applied advanced NLP techniques (Semantic & Syntactic Similarity) to preprocess the dataset of symptoms and enhance the chatbot's ability to analyze user queries.
- Yielded more than 90% accuracy score after training and implementing KNN, Gaussian Naïve Bayes, Decision Tree, SVM using the trained
- 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

- Developed a facial emotion recognition system using the CREMA-D (Crowd-sourced Emotional Multimodal Actors) dataset.
- Successfully extracted facial landmarks, HOG (Histogram Oriented Gradients), and LBP (Local Binary Patterns) using OpenFace Library, resulting in a feature representation with an F-1 score of 0.82.
- Utilized SVM classifiers and performed 5-fold cross validation to fine-tune hyperparameters achieving an average precision of 0.88 across various emotional categories.

GRIP-2 Handwriting Analysis, Undergraduate Research & Entrepreneur Program

Feb 2022 - May 2022

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

- Collected a dataset of handwriting images (alphabet characters and symbols) from 6–9-year-olds with GRIP-2 prototype.
- Applied preprocessing methods including resizing, normalization, and noise reduction, enhancing the image quality by 20%.
- Developed research on implementing ensemble technique combining Convolutional Neural Networks (CNNs) and Support Vector Machines (SVMs) on existing GRIP-1 handwriting analysis research.

SKILLS

: Python, Java, R, SQL, Javascript, CSS, HTML, MATLAB Languages

Database Management : MySQL, MongoDB

Data Visualization : Tableau, RStudio, Matplotlib, Seaborn

Big Data : Apache Spark, Hadoop

: Deep Learning, Machine Learning, NLP, TensorFlow, CNN **Data Science**