

YANNI ETCHI

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OBJECTIVE

Self-starter with a passion for data science and research, specializing in machine learning and analysis of complex datasets. Aiming to contribute to and learn from innovative projects by applying technical skills to extract valuable insights, leading to growth and success.

EDUCATION

University of North Carolina - Chapel Hill

August 2023 - May 2025

Bachelor's, Mathematics and Computer Science

- Relevant coursework: Probability, Linear Algebra, Differential Equations, Calculus, Discrete mathematics, Computer systems, Analysis of Data Structures, Foundations of Programming.

Wake Technical Community College

August 2021 - May 2023

Associate's, Computer Science, honors

PROFESSIONAL EXPERIENCE

University of North Carolina - Chapel Hill

Chapel Hill, NC, USA

Math and Physics Help Center Tutor

August 2023 - Present

- Consistently simplify complex concepts in calculus, linear algebra, and differential equations. Adapt lessons to cater to the unique needs of students through personalized sessions, fostering enhanced understanding and academic progress in mathematics.

University of Massachusetts - Dartmouth

Dartmouth, MA, USA

Research Intern - Machine Learning

June 2023 - August 2023

- Leveraged data analytics and machine learning techniques to contribute to the advancement of materials research, with a focus on improving the performance of energy storage systems.
- Delivered dynamic presentations through effective literature review and data collection techniques. Demonstrated strong analytical skills in a professional setting, contributing to successful poster sessions.

Wake Technical Community College

Raleigh, NC, USA

Research Intern - Data Analytics

August 2022 - May 2023

- Leveraged JMP for in-depth analysis and visualization of census data, revealing nuanced trends in education attainment across diverse demographic groups in the United States.
- Collaborated with team members to enhance insights and ensure comprehensive data exploration.

PROJECTS & OUTSIDE EXPERIENCE

AI FAKE NEWS DETECTION WEB-APP

Remote

December 2023 - January 2024

- Developed and deployed a machine learning web application using Node.js and Express to classify the reliability of news articles.
- Employed TD-IDF vectorized text from a designated dataset to train a logistic regression model, demonstrating expertise in data preprocessing, machine learning model implementation, and web application development.

IMAGE CAPTIONING USING DEEP NEURAL NETWORKS

Remote

September 2023 - October 2024

- Encoded images using RESNET-50, a pre-trained convolutional neural network, and employed it to train a Long Short-Term Memory recurrent neural network for the generation of image captions.
- Demonstrated expertise in leveraging advanced neural network architectures for multimodal data processing.

EXPLORATION OF CATIONS FOR VBH MODEL SYSTEM USING MACHINE LEARNING

Dartmouth, MA, USA

Research intern

May 2023 - July 2023

- Leveraged machine learning techniques, including data visualization and preprocessing, to optimize solubility in non-aqueous redox flow batteries.
- Utilized diverse regression models such as Linear Regression, Extra Trees, Random Forest, Extreme Gradient Boost, Cat Boost, and Adaptive Boost. Conducted thorough analysis, achieving successful predictions for 500 new cations from the ChEMBL database.
- Accelerated material discovery in energy storage technology through effective model interpretation and performance evaluation.

SKILLS

Technical skills: NodeJS, Java, JavaScript, Git, NumPy, Pandas, TensorFlow, Keras, MATLAB, HTML, CSS, python, SQL, JMP, matplotlib, seaborn, Scikit-Learn, C, Microsoft Office.