TIFFANY LE

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EDUCATION

Chapman University, School of Engineering, Orange, CA

Bachelor of Science in Data Science, Minor in Leadership Studies May 2025

Masters of Science in Electrical Engineering and Computer Science May 2026

Relevant Courses:

- Data Structures and Algorithms
- Database Management
- Introduction to Data Science
- Technical Communication
- Machine Learning
- Artificial Intelligence

TECHNICAL SKILLS

- Python
- SQL and MySQL
- Machine Learning
- Data Visualization
- Database Management
- Quarto
- Git and GitHub
- Microsoft Excel
- TensorFlow/Keras

PROFESSIONAL EXPERIENCE

Student Research Assistant (Wen Lab) | *Chapman University - Orange, CA* July 2024 - Present

- Develop data fusion algorithms for health monitoring and patient clinical outcome prediction using clinical data
- Conduct literature reviews on various advanced machine learning techniques (network compression, data fusion, and accuracy preservation), contributing to the development of the study's methodologies and paper
- Co-author of a soon-to-be-published research paper on the methodologies and findings of the Machine Learning study, to be presented at the Southern California Conferences for Undergraduate Research (SCCUR), November 2024

Engineering Student Ambassador and Office Assistant | *Chapman University - Orange, CA* March 2022 - Present

- Develop a yearly strategic plan with the other ambassador and Manager of Student Success to plan Engineering events that will maximize student engagement and success

Summer Engineering Academy ML Student Instructor | *Chapman University - Orange, CA* June 2024 - July 2024

- Instruct and introduce the concept of Artificial Intelligence and Machine Learning to Middle and High School students
- Prepare lesson plans and presentations for the workshop covering various topics (CNN, TensorFlow, Computer Vision)

RELEVANT PROJECTS

Inpatient Length of Stay and Mortality Prediction [Python, Pandas, PyTorch, NumPy, CNN] July 2024 - Present

- Develop a machine learning model that utilizes Tucker Decomposition and Modality Fusion using Alzheimer's Data from ADNI, Alzheimer's Disease Neuroimaging Initiative
- Integrate multimodal data (MRI images, demographics, and time series) for enhanced predictive modeling

Geospatial Analysis for Real Estate Investment [Python, GIS, Pandas, Geopandas, matplotlib] September 2024 - Present

- Perform geospatial analysis on King County house sales to asses the proximity of houses to public services
- Develop and compare two machine learning models (Random Forest Regressor and XGBoost) for price prediction, utilizing features from geospatial analysis to strengthen the model's performance
- Publish an article and present project findings on geospatial analysis fundamentals and its role in real estate as a student speaker for a senior applied business analytics course

Women in Data Science (WiDS) [Python, NumPy, Pandas, Scikit-learn] January 2024

- Programmed a predictive model using Catboost for the 2024 WiDS Datathon to determine the time to treatment for patients diagnosed with metastatic triple-negative breast cancer and had the strongest-performing model in Chapman

Grocery Store Discount Detection [YOLOv5m, Computer Vision] December 2021 - June 2023

- Collaborated with team to create an open-sourced dataset to confirm the accuracy of grocery store discounts
- Performed Computer Vision to detect and classify grocery store discounts (price reduction, quantity sale, etc.)

ACADEMIC AWARDS AND LEADERSHIP

- Chapman AI Club, **Internal Vice President** April 2024 - Present
- Fowler School of Engineering Student Advisory and Leadership Council, **Officer** February 2024 - Present
- Mortar Board Honor Society Elie Wiesel Chapter, **Secretary** April 2024 - Present
- Provost's List 2022, 2023, 2024
- Chapman Student Government Association, **Senator and Chairperson** October 2021 - April 2024