

# Athanasios (Nasos) Tassiadamis

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## EDUCATION

**University of Nevada, Las Vegas**, Honors College  
*Bachelor of Arts in Computer Science, Minor in Mathematics, Minor in Economics*

**Las Vegas, NV**  
*Anticipated Dec 2025*

- **GPA:** 4.0/4.0; Dean's List
- **Computer Science Coursework:** Object Oriented Programming (C++), Data Structures & Algorithms, Machine Learning, Operating Systems, Cloud Computing, Web Development
- **Math & Econ Coursework:** Differential and Integral Calculus, Discrete Mathematics, Probability and Statistical Inference for Engineers, Microeconomics, Macroeconomics, Money and Banking
- **Graduate Coursework as Undergraduate:** Advanced Analysis and Presentation of Data

## TECHNICAL SKILLS

**Programming Languages:** Python (2yr), C++ (2yr), C (1yr), and JavaScript (1yr)

**Libraries & Frameworks:** NumPy, Pandas, SciPy, Scikit-learn, Keras, TensorFlow, Matplotlib, and Seaborn

**Web Development:** HTML, CSS, and React

**Databases, Tools, Other:** Excel, Git, SQL, Linux, Jupyter Notebook, Conda, and AWS

## PROJECTS

**Machine Learning for March Madness Forecasting (Pandas, SciKit-Learn, Keras)** | [March Link](#) | Feb. – May. 2025

- Developed three binary classification models (Neural Network, Logistic Regression, and XGBoost Classifier) to predict win/loss outcomes for March Madness tournament games. Research presented @ UNLV OUR.
- Applied contextual feature processing to address discrepancies in regular season data, improving predictive accuracy by ~6% compared to uncontextualized data. The final model achieved ~2% higher accuracy than a traditional seed-based model.

**STOCK VISUALIZATION (Python, Django, JS, HTML, Chart.js, CSS, SQLite)** | [Stock GitHub Link](#) | Jan. – Feb. 2025

- Developed interactive stock visualization tool that dynamically fetches, caches, and displays user-selected historical **stock and crypto data** from Alpha Vantage API, leveraging SQLite for data storage.
- Utilized Chart.js, AJAX, and JavaScript for asynchronous updates to front-end charts with minimal page reloads and an interactive user experience.

**Stroke Prediction (Python: Pandas, SciKit-Learn, Keras, and TensorFlow)** | [ML GitHub Link](#) | Oct. – Dec. 2024

- Collaborated on a team of four to analyze the Kaggle Stroke Prediction Dataset, leveraging advanced machine learning techniques and models including Random Forest, Decision Trees, Feed-Forward Neural Networks, KNN, SVM, and GBM to achieve a best performing **recall of 96%** and **accuracy of 80%** on a highly imbalanced dataset (95% no-stroke, 5% stroke).
- Preprocessed imbalanced and unclean data using various techniques such as one-hot encoding, feature selection, under-sampling, standard scaling, k-fold cross validation, and SMOTE.
- Presented findings and visualized data to a class of **50+ students** [ML presentation](#).

## EXPERIENCE / EXTRACURRICULAR

**Upcoming Summer Machine Learning Researcher**

*Worcester Polytechnic Institute (REU)*

**Worcester, MA**  
*May 2025 - Aug 2025*

**Founder/President**

*UNLV AI & Data Science Club* ([UNLV AI & Data Science Club](#))

**Las Vegas, NV**  
*May 2024 - Present*

- Led a team of 13 officers and **250+ members** to launch key tech initiatives, including a website, Discord bot, and research projects—while securing **\$5K** in funding through grant applications and financial oversight.
- Notable accomplishments include hosting a guest speaker from **Microsoft**, a UNLV machine learning postdoc, two student-led research projects presented at UNLV OUR, and two AI workshops attended by **50+ participants**.

**Vice President/Competition Team Lead**

*UNLV Association of Computing Machinery* ([ACM UNLV](#))

**Las Vegas, NV**  
*May 2024 - Present*

- Organized and lead weekly competitive programming training sessions.

**Manager**

*Desert Breeze Aquatic Center*

**Las Vegas, NV**  
*Sept 2021 – Aug 2023*

- Oversaw a team of 50+ staff members, managing daily operations and ensuring safety protocols.

## INTERESTS, AWARDS, AND ADDITIONAL INFORMATION

**Certification:** AWS Certified Cloud Practitioner (Expires 2028), CodePath Advanced DS&A

**Awards:** 2x Roy and Helen Kelsall Engineering Scholarship, James H. Bilbray Public and Community Service Scholarship, UNLV Signature Academic Scholarship, Governor Guinn Millenium Scholarship

**Languages:** English (Native), Greek (Verbal)

**Interests:** Basketball, Travel, Auto Chess (Former Top 1% in TFT), Reading