

Athanasios (Nasos) Tassiadamis

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EDUCATION

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

Las Vegas, NV
Aug. 2023 – 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, Full Stack Web Development
- **Math:** Differential and Integral Calculus, Discrete Mathematics, Probability and Statistical Inference for Engineers
- **Graduate Coursework as Undergraduate:** Advanced Analysis and Presentation of Data

TECHNICAL SKILLS

Programming Languages: Python (2.5yr), C++ (2yr), C (1yr), and JavaScript (1yr)

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

Web Development: HTML, CSS, React, Node.js, Tailwind, D3.js, and TypeScript

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

WORK EXPERIENCE

Applied Artificial Intelligence for Advanced Applications Researcher (REU)

Worcester Polytechnic Institute

Worcester, MA
May 2025 – Aug. 2025

- Selected as **1 of 10 participants** from a national pool of **over 700 applicants** for NSF-funded Research Experience for Undergraduates (REU).
- Collaborated closely with PhD research team to design and build a **Log Anomaly Analytics Platform (LAAP)** using **React, Tailwind, and D3.js**, enabling real-time visualization of LLM powered log to file system hierarchy construction and user interaction with Retrieval Augmented Generation (RAG) knowledge bases.
- Led **UX refinement through structured user testing**, leveraging System Usability Scale (SUS), average task completion time, and task success rates to enhance interface and **improve SUS score from 62 – 71**.
- Implemented a knowledge base querying system using cos-similarity over LLM embeddings to retrieve semantically similar logs; optimized knowledge base component rendering to **reduce page load time by ~35%**, improving responsiveness.

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 at 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 **~3%** higher accuracy than a traditional seed-based model predicting **~72%** of tournament games correctly.

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

- Collaborated with a team of four to analyze the Kaggle Stroke Prediction Dataset, leveraging 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 to a class of **50+ students**

EXTRACURRICULAR

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 each attended by **50+ participants**.

Vice President/Competition Team Leader

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

Las Vegas, NV
May 2024 - Present

- Organized and led weekly competitive programming training sessions.

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 (Self Taught; Conversational w/ Partial Reading + Writing Proficiency)

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