Axel Agelii

 https://aagelii.github.io

in aagelii

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SKILLS

- **Languages**: Python, C/C++, SQL, Java, LATEX, CUDA, MATLAB

- **Libraries**: Pandas, PyTorch, Scikit-learn, TensorFlow, Matplotlib, NumPy, Hadoop, Spark

- **Other**: Bash, Git

EXPERIENCE

Graduate Teaching Assistant — Madison, WI
- University of Wisconsin- Madison — Aug. 2022 - Present

  - COMPSCI 200: Programming I; Intro to programming using Java

Software Engineer, Part Time — The Woodlands, TX
- ZamTech — Aug. 2022 - Present

Data Science Intern — Houston, Texas
- PFS Group — Jun. 2022 - Aug. 2022

  - Utilized feature selection techniques: Extra Trees Classifier, ANOVA, Correlation Matrix, and Recursive Feature Elimination to find the most useful features to reduce overfitting, improve accuracy, and reduce training time; Reduced number of features by 75%
  - Created multiple predictive and classification propensity to pay machine learning models to predict patients probabilities of paying medical bills and the amount paid to hospitals with a ROC AUC score of 80%

Translator and Researcher — Taipei, Taiwan
- National Communication Commission — July 2019 - Aug. 2019

  - Research assistant that digested materials on 5G and AI policies in foreign countries to aid the Taiwanese Government in policy reports.

EDUCATION

M.S. Computer Science — Madison, WI
- University of Wisconsin- Madison — Sep. 2022 – 2024
  Relevant Coursework: Machine Learning, Big Data Systems, Data Visualization, Computer Vision, High Performance Computing

B.S. Computer Science — Madison, WI
- University of Wisconsin- Madison; GPA: 3.702 — Sep. 2020 – May 2022
  Relevant Coursework: Artificial Intelligence, Database Management Systems, Data Science, Machine Learning, Data Structures, Algorithms, Computer Architecture, Operating Systems

The Woodlands High School — The Woodlands, TX
- High School Diploma; GPA: 3.8 — Aug. 2016 – May 2020

PERSONAL PROJECTS

Python Trading Bot

- Worked with the OpenAI Gym gym-Anytrading for Reinforcement Learning Trading
- Trained a Trading Bot with Python Reinforcement Learning using Stable Baselines
- Used Marketwatch trading data of different companies for training

Personal Portfolio Website

- Personal website that contains many of my projects; Written in HTML/CSS/JS