

Axel Agelii

🔗 <https://aagelii.github.io>

in aagelii

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SKILLS

- **Languages:** Python, C/C++, SQL, Java, LATEX
- **Libraries:** Pandas, PyTorch, Scikit-learn, TensorFlow, Matplotlib, NumPy
- **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

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| M.S. Computer Science | Madison, WI |
| • University of Wisconsin- Madison | Sep. 2022 – 2023 |
| Relevant Coursework: Machine Learning, Big Data Systems, Data Visualization, Computer Vision, High Performance Computing for Applications in Engineering | |
| 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