Aya Tarist
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EDUCATION

Bachelor Of Science, Bucknell University   **Lewisburg - PA, May 2025**
Major: Computer Science & Engineering, Minors: Business Analytics

PROGRAMMING & DESIGN

Languages & Tools: Python (Pandas, NumPy), Java, C, JavaScript, SQL, Microsoft Office (Excel, Word, PowerPoint), Jupyter, Gurobi, Jenkins, Oracle Cloud, Linux
Web & UI: React, HTML/CSS, WCAG, Figma, Tableau, Power BI, Simio, Scrum/Agile, Atlassian (Jira, Confluence)

EXPERIENCE

Machine Learning Engineer Intern – ORACLE, Remote   **June 2024 – August 2024**
- Expanded data model support from Pandas dataframes to include Pandas series, streamlining user workflows and ensuring seamless data handling without loss of data labels during type conversions.
- Enabled support for custom forecasting models, ensuring that explainability features remained functional.
- Investigated forecasting models by diving into client-reported anomalies, conducting in-depth analysis and testing on outputs.

Research Grant Recipient, Cross-Collaboration in Accessibility - MOZILLA, Bucknell University   **May 2023 –May 2024**
- Spearheaded a community-wide digital accessibility initiative by conducting in-depth WCAG compliance evaluations for over 15 local businesses, resulting in significant accessibility improvements.
- Collaborated with university developers to redesign the Digital Scholarship Bucknell platform, implementing inclusive design principles that improved navigation for screen reader users by 65%.
- Created and facilitated an assistive technology workshop for Lewisburg School District educators, demonstrating how to modify toys and learning materials to support students with diverse abilities.

Software Engineering Intern – RENAULT Casablanca, Morocco   **May 2022 – July 2022**
- Gained in-depth understanding of Agile, Lean IT, and Scrum methodologies by shadowing the Head of IT Architecture and a team of four DevOps engineers in the development and maintenance of the 'My Renault' merchandise app
- Enhanced technical skills by participating in workshops on Cloud infrastructure, Java and application delivery optimization.

Engineering Leadership Intern, Bucknell College of Engineering, Lewisburg, PA   **Sept 2022 – May 2023**
- Led Engineering Student Board and four committees (17 students) to successfully execute annual Engineering Week
- Presented data-driven insights to department leadership, strengthening student-faculty communication channels

PROJECTS

Pennsylvania Native Tree Selector | React · React Router · Tailwind CSS · PWA
- Developed full-stack React web application with dynamic filtering, transforming legacy Excel spreadsheet into interactive tool
- Implemented state management using React Hooks, enabling complex tree species filtering across multiple parameters
- Designed responsive UI with Tailwind CSS, supporting dynamic geolocation and USDA hardiness zone recommendations

Predictive Modeling of Formula 1 Driver Rankings | Python · Machine Learning · Jupyter
- Preprocessed and cleaned racing data from the Ergast API (2009-2022) using Pandas, handling missing values and feature engineering.
- Built and tuned Logistic Regression, Decision Tree, and Random Forest models to predict driver rankings, achieving 85% accuracy.

Northeastern Accessibility Hackathon | Figma · HTML · CSS · WCAG
- Developed a tool identifying web accessibility issues and educating designers on WCAG best practices.
- Designed a Plugin to check for accessibility guidelines, fostering collaboration between designers and developers in testing compliance, earning the team third place.

LEADERSHIP & AWARDS

Class Representative – Society of Women Engineers   **August 2023 – Present**
Founder and President - Middle Eastern North African Student Association   **January 2022 – December 2023**
French Teaching Assistant   **September 2022 – May 2023**
Michael M. & Lillian Amber Fremont Scholar - Grace Hopper Scholar '24 - Society of Women Engineers Scholar '24
Dean's List '22 '23 '24

LANGUAGES

English | French | Arabic