ALICE GIOLA

[(208) 760-7901 | Malix.giola03@gmail.com | alicegiola.com | GitHub | LinkedIn Pocatello, ID, USA

Skills

- Soft Skills: Communication (written & verbal) | Time Management | Problem-Solving | Team Collaboration | Adaptability | Goal-Oriented | Self-Motivated | Strong Work Ethic | Detail-Oriented | Creativity | Customer Service
- Coding: C# | C++ | C | Python | Java | SQL | HTML | CSS | JavaScript | JSON | Git | Front End | Back End
- Technologies/Environment: Falcon | JupyterLab | Visual Studio | Github | Windows | macOS | Linux | iOS | Android | Microsoft Office | Google Workspace
- Languages: English, Italian C2: Native or bilingual proficiency | Chinese A1: Elementary proficiency (HanBan YCT3)

Experience _

ML & Spectroscopy Research Assistant

Idaho State University

Pocatello, ID

1/2025 - Present

- Tested and evaluated deep learning model (CNN & feedforward) on spectroscopy dataset using Python, PyTorch, NumPy, Matplotlib.
- Implemented code additions for data normalization and preprocessing in Python.
- Conducted statistical validation to ensure model reproducibility and accuracy.
- Interpreted results and assessed performance against baseline models.

ML & Neural Activity Research Assistant

Idaho State University

Pocatello. ID 11/2024 - Present

- Tested and debugged Python-based ML models for neural activity prediction, utilizing NumPy, SciPy, TensorFlow.
- Processed and analyzed EEG data, applying ML algorithms to identify spatiotemporal patterns in neural activity.
- Utilized PyTorch, PCA, Sklearn, and custom neural network architectures to analyze EEG data and optimize model accuracy.

Applied AI and ML Trainee

HoT-AML

Pocatello, ID 08/2024 - 12/2024

- Trained and optimized deep learning models using PyTorch, improving model accuracy.
- Gained hands-on experience with AI and ML techniques, tailored to address real-world applications.

Capstone Project Student

Idaho State University

Pocatello. ID 01/2024 - 05/2024

- Obtained the **top project award** for outstanding visualization and interactivity.
- Developed interactive features for dynamic visualization of tree operations, enhancing educational utility and making complex structures easy to grasp for future students.

Education

Bachelor of Science

Idaho State University

Pocatello, ID

12/2024

- Major in Computer Science | Cybersecurity Academic Certificate | GPA: 3.87
- Relevant Coursework: Object-Oriented Programming | Advanced Algorithms | Data Structures | Compilers | Secure Operating Systems | Software Engineering | Threat Intelligence | Cybersecurity and Resilience | Secure Systems and Networks | Advanced Computational Theory | Statistical Methods | Professional and Tech Writing | Graphic Design

Projects

- Personal Portfolio Website (HTML/CSS/Javascript): Custom-built portfolio website with responsive design.
- B-Tree and B+Tree visualizer (C#): Interactive B+Trees application for understanding of their operations and efficiencies.
- Custom Space Invaders Video Game (C#): Custom version of Space Invaders game, with unique features and challenges.
- TSP Solver with 4-OPT (Python): TSP solver application with optimized Greedy algorithm using 4-Opt Local Search for efficient routing.
- Album Collection Manager (SQL, Python): Full CRUD database system for organizing albums and musical records.