Geralt Heart

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github.com/GHeart01 | in/geraltheart001

Education

- University of Colorado Boulder January 2025 – December 2026 (currently enrolled)

    Master of Science in Computer Science

- Blinn College June 2024– Fall 2024

    Associates of Science in Computer Science

- University of Texas Rio Grande Valley (UTRGV) July 2017 – May 2020

    Bachelor of Science in Applied Mathematics

Projects

MIMO Radar Imaging Study

- github.com/GHeart01/MIMOFourierSeriesProject

Capstone Project based on existing research using Fourier Series, Multi-Input Multi-Output (MIMO) analysis on radar systems. Project created using MATLAB

Portfolio Website: geraltheart.com

- github.com/GHeart01/Website

A portfolio website created using HTML/CSS/JS – Utilizes emailJS client and hosted with Cloudflare

Supervised Machine Learning Project - Spaceship Titanic

- github.com/GHeart01/SpaceShip-Titanic-Supervised-ML-Project

A supervised machine learning project using a Kaggle dataset from the Spaceship Titanic competition. Utilizes Jupyter Notebook, NumPy, pandas, seaborn, matplotlib, SciPy, scikit-learn, TensorFlow, and ydf to analyze a Kaggle data set and predict true or false to whether a passenger has been transported using Random Forest, Gradient Boosting Trees Machine, and Logistic Regression, comparing performance

Work Experience

Mathematics Tutor South Texas College | Sept 2018 – June 2020

- Provided tutoring services for mathematics and statistics courses including College Algebra, Calculus I, II, III, Elementary Statistics, Differential Equations, and other mathematics classes.

Freelance Mathematics Tutor | June 2020 – May 2024

- Customized mathematics tutoring sessions to meet individual student needs, focusing on areas such as calculus, algebra, and statistics.

Skills

- Programming Languages: Python, C, C++
    - Frameworks/Libraries/Data Cleaning: NumPy, Pandas, Matplotlib
    - Machine Learning: sklearn, Tensorflow, ydf, SciPy
- Web Development: HTML, CSS, JavaScript, EmailJS, Cloudflare, AWS amplify
- Operating systems: MacOS, Windows, Linux (RaspianOS, Ubuntu)
- Software Tools: GitHub, Git, VS Code, Xcode