

Geralt Heart

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EDUCATION

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| University of Colorado Boulder GPA: 3.9 | <i>Expected May 2027</i> |
| Master of Science in Computer Science | Boulder, Co |
| University of Texas Rio Grande Valley GPA: 3.5 | <i>July 2017 – May 2020</i> |
| Bachelor of Science in Applied Mathematics | Edinburg, Tx |
| Blinn College GPA: 4.0 | <i>June 2024 – December 2024</i> |
| Associates of Science in Computer Science | Bryan, Tx |
| South Texas College GPA: 3.5 | <i>Aug 2014 – December 2017</i> |
| Associates of Science in Engineering | McAllen, Tx |

PROJECTS

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| Customer Segmentation & Clustering Analysis <i>NumPy, pandas, seaborn, matplotlib, TensorFlow</i> |
| github.com/GHeart01/Wholesale_Customer_Clustering |

- Built a customer segmentation pipeline using KMeans and Hierarchical Clustering to identify purchasing behavior patterns.
- Evaluated clustering quality using silhouette scores between cluster counts.
- Provided heatmap/pair plot visualizations to display data.

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| SMS Spam Detection Analysis – Deep Learning <i>NumPy, pandas, seaborn, matplotlib, SciPy</i> |
| github.com/GHeart01/SMS-Spam-Collection-Deep-Learning |

- Data engineered features from raw data to gain better pivot points for analysis.
- Compared deep neural networks and LSTM models to provide basis on decision making.
- Improved model performance and viewer-accessibility through visualization and log-transformed feature analysis.

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| NLP Disaster Analysis – Natural Language Processing <i>NumPy, pandas, seaborn, Keras, TensorFlow</i> |
| https://github.com/GHeart01/NLP-Disaster-Tweets |

- Utilized a DistilBERT-based NLP model to classify disaster-related tweets.
- Reduced model size by 50% while maintaining 97% validation.
- Addressed overfitting through hyperparameter tuning and validation analysis, compared heatmaps to compare the performance difference.

WORK EXPERIENCE

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| Guest Teacher | <i>Aug 2025 – present</i> |
| Harmony Science Academy / Kokua Education | Austin, Tx |
| <ul style="list-style-type: none">• Performed teaching duties for K-12 schools• Performed IT work including computer setup, maintenance, and installations. | |

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| Mathematics Tutor | <i>Sept 2018 – June 2024</i> |
| South Texas College / Freelance | McAllen, Tx |
| <ul style="list-style-type: none">• Performed one-on-one and group instruction for mathematics and statistics courses including College Algebra, Calculus I, II, III, Elementary Statistics, Differential Equations, and other mathematics classes. | |

SKILLS

Languages: Python, SQL, C++, JavaScript, MATLAB

Machine Learning & Data Engineering: Pandas, NumPy, scikit-learn, TensorFlow, Keras, SciPy

Data Visualization: Jupyter Notebook, Matplotlib, Seaborn

Databases & Tools: PostgreSQL, Docker, Git, GitHub, AWS Lightsail

Other: Linux, Bash, VS Code, Three.js, gsap