

# Anna Evans

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## Education at The University of Texas at Dallas

### Graduate Student in Artificial Intelligence

GPA 3.9

Fall 2022 – Present

### Bachelor's of Science in Cognitive Science

GPA 3.9

Graduated Spring 2022

- Concentration in Artificial Intelligence
- Minor in History

## Work Experience

### Graduate Artificial Intelligence Research Intern

The MITRE Corporation

May – Aug 2022

- Internship position working with adversarial artificial intelligence and workflow orchestration tools
- Responsibilities included using 3DB to highlight vulnerable areas on a 3D model to inform adversarial patch placement
- Used Python, 3DB, Blender, and Git

### Artificial Intelligence Research Intern

The MITRE Corporation

May 2021 – May 2022

- Internship position working with adversarial artificial intelligence in both a development and research role
- Responsibilities included creating metrics to evaluate adversarial attacks, testing how changes to parameters such as patch size impacted performance and applying and documenting various types of open-source adversarial attacks
- Used Python, Foolbox, Seaborn, Numpy, Pandas, Git, and PyTorch

### Software Intern

Lockheed Martin Corporation

May – Dec 2019

- Internship position working on the SkyKeeper command and control battle manager
- Responsibilities included debugging product graphical user interfaces (GUI), integrating internal software function interfaces, and writing software to record internal product messages during real-time system simulation
- Used C++, Java, RTI DDS Middleware, Netbeans, and Git

## Technical Skills

### Python

- Machine learning including Keras, PyTorch, scikit-learn
- Data processing using Pandas, Numpy, Pillow
- Visualization with Matplotlib, Seaborn

### R

- Visualization with ggplot2, Shiny
- Data processing with dplyr

### Additional Languages

Java, MATLAB, C++

## Projects

[github.com/eliannaevans](https://github.com/eliannaevans)

### Neural Net Mathematics Final Project

[eliannaevans.github.io/neuralNet\\_finalProject.pdf](https://eliannaevans.github.io/neuralNet_finalProject.pdf)

- Group semester-long project training an unsupervised logistic regression model with "hint" from supervised model to classify human actions from 30 image features isolated using SVD
- Used Python, Pandas, Numpy, R, ggplot2

### Data Visualization Final Project

[eliannaevans.github.io/finalProjectStoryboard.html](https://eliannaevans.github.io/finalProjectStoryboard.html)

- Group semester-long project using Tidyverse and Shiny to visualize trends in speed dating data
- Used R, ggplot2, dplyr, Shiny

### Hackathon: Classification of Pirate Coins

[github.com/eliannaevans/coins\\_of\\_the\\_seven\\_seas](https://github.com/eliannaevans/coins_of_the_seven_seas)

- Created a convolutional Keras model to classify images of coinage used by pirates in the 17<sup>th</sup> and 18<sup>th</sup> centuries for HackUTD
- Used Python, Keras, Matplotlib, Pillow, scikit-learn