

Anna Evans

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Education

The University of Texas at Dallas

MS in Artificial Intelligence

3.9 GPA May 2024

BS in Cognitive Science

3.9 GPA May 2022

- Concentration in Intelligent Systems and Psychology
- Minor in History

Technical Skills

Python ★★★★★

- Keras, PyTorch, scikit-learn
- Seaborn, Matplotlib
- Pandas, Numpy, Pillow

R ★★★★★

- ggplot2, Shiny, graphics
- dplyr, tidyverse

Java ★★★★★

Matlab ★★★★★

C++ ★★★★★

Experience

Artificial Intelligence Research Graduate Intern

MITRE Corporation May 2021 - Present

- Developing adversarial artificial intelligence in Python as a Red Team member using Agile processes and Git versioning
 - Created metrics for adversarial attack evaluation, tested performance impacts due to parameter changes (i.e. patch size), and visualized adversarial attack performance with Matplotlib and Seaborn
 - Informed adversarial patch placement by highlighting vulnerable areas on a 3D model with 3DB, an open-source framework for debugging computer vision models
- Researched Foolbox, an open-source adversarial artificial intelligence package, to implement black box adversarial attacks
 - Documented mathematical basis of Foolbox attacks based on conference and journal publications
 - Leveraged attacks against Pytorch machine learning models
- Researched workflow orchestration tools to automate preprocessing, training, and evaluation of machine learning models

Software Intern

Lockheed Martin Corporation May - Dec 2019

- As part of an Agile team, developed the SkyKeeper command and control battle manager with C++, Java, and Git.
 - Debugged product GUIs, integrated internal software function interfaces, and wrote software to record internal product messages during real-time system simulation

Projects

For detailed information, interactive storyboards, and Jupyter notebooks, visit eliannaevans.github.io

Human Action Recognition with Unsupervised Learning

- Trained an unsupervised logistic regression model in Python to classify human actions from image features isolated using singular value decomposition (SVD)

Visualization of Speed Dating Data

- Visualized trends in speed dating data using, creating static graphics with ggplot2 and interactive dashboards with gganimate and Shiny

Hackathon: 17th Century Coin Image Classification

- Created a convolutional Keras model to classify images of 17th and 18th century Spanish coins for HackUTD