Josie Mace

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Location : Brighton, MA

#### **EDUCATION**

# Illinois Institute of Technology

Chicago, IL

Bachelor of Science: Artificial Intelligence

Dec. 2022

### EXPERIENCE

# Data Analyst

Chicago, IL

Digby's Security Agency

May 2022 - Dec 2022

• **Python; Software Development**: Pulled detection data from a remote surveillance robot, then filtered, cleaned, and manipulated data using personally developed Python programs. From this information, I then generated various reports leading to a 54% increase in response time/company-wide efficiency.

### PROJECTS

# Remote Telescope Commissioning

In collaboration with IBM

Aug. 2021 - Dec. 2021

- Swift Pathfinding: Developed a breadth-first pathfinder in Swift that uses a KDTree and priority queue, allowing a telescope to move to a given equatorial coordinate without self-collision
- UI Refinement: Refined UI FITS image viewer to allow for multi-image processing and colorization

# Feature Extraction

Data Minina

Jan. 2021 - May 2021

• Methodology: Split features from a given data frame to establish corresponding class using a PMML pipeline, then implemented an Ada-Boost, Random-Forest, and Gaussian-Process classifier to categorize the given data within 0.1 percent accuracy

# Image Classification

Personal Project

Nov. 2021

• Methodology: Using the Tensorflow Python library, the MNIST Fashion Dataset was preprocessed with shiftable edges, then classified using K-Nearest Neighbors with non-linear deformation

#### CERTIFICATIONS

- IBM Watson Badge: Open Project Developer I, Dec. 2021
- IBM Watson Certificate: Applied AI Professional, Feb. 2022

#### Programming Skills

- Languages: Python, R, C++, SQL, Haskell
- Machine Learning Frameworks: Tensorflow, Scikit-learn, Scipy