

# Lais Castro

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## EDUCATION

**Kean University** *Union, NJ*

*September 2021 – May 2024*

Bachelor of Science, Computer Science.

**Relevant Coursework:** Computer Security, Database Management, Matrix and Linear Algebra, Applied Statistics I, JAVA programming, Computer Systems, Computer Architecture, Data structure, Artificial Intelligence.

## LEADERSHIP EXPERIENCE

**GOOGLE Grant Research** *remote*

*10/2023 - present*

- Develop a working Algorithmic and System Optimizations for Distributed ML Training with Large Datasets prototype that incorporates our first-cut aggregator with parameter server architecture with GPUs and benchmark performance (performance and accuracy)

**REU - CAHSI Great Minds in Stem Research** *Union, NJ*

*02/2023 – 08/2023*

- Applying Transformers to Geoscience and Earth Science. Fellows and I focus on object detection in Geoscience and Earth Science datasets through the use of DETR (or Detection Transformers) and Deformable DETR Neural Network AI Models, both created by Meta. We explore the application of DETR and Deformable DETR to pollen and earth snapshots to assess the model's effectiveness and build visualizations of our results.

**Artificial Intelligence Ai4ALL** *Union, Nj*

*09/2022 – 12/2022*

- Selected as 1 of 30 fellows from a competitive applicant pool to participate in an Artificial Intelligence program to develop a project with teammates about predicting Covid Death Cases with the implementation of Artificial Intelligence. Selected as 1 of 30 fellows from a competitive applicant pool to participate in an Artificial Intelligence program to develop a project with teammates about predicting Covid Death Cases with the implementation of Artificial Intelligence.

## TECHNICAL SKILLS

**LANGUAGES/LIBRARIES:** Python, Java, R (**Dplyr, Tydiverse, GGplot**), HTML, MySQL.

**TOOLS AND TECHNOLOGIES:** Jupyter Notebook, obi and eve servers, Microsoft Office, Git, GitHub Desktop, Eclipse, Rstudio, VisualStudio, Jgrasp, Sublime, MySQLWorkbench, Google Colab.

## PROFESSIONAL EXPERIENCE

**Dean's Student Assistant - Kean University.** *Union, NJ*

*Fall 2022 semester - present*

- Created and managed spreadsheets via advanced Excel functions to update departments directory and generate reports and lists.
- Strong communication and interpersonal skills ensure effective interaction with diverse students and internal staff members.
- Managed incoming and outgoing correspondence, made photocopies and dispersed mail to correct recipients within the office.

**Intern Developer - ACE/Indiana University.** *Bloomington, IN*

*Summer 2023*

- Complete the development of a Question Answering Chat Application based on Neural Networks and Large Language Models similar to ChatGPT
- Collect and collaborate with employees of ACE and create a series of questions in which the model could be trained on.

**Videographer - Javier Castro Photography LLC.** *Union City, NJ*

*02/2019–present*

- Developer of audiovisual productions covering social events.
- In charge of the management of logistic equipment and drones.
- Satisfying customers needs and desires in order to achieve a professional final product.
- In charge of studying and growing social media platforms applying modern techniques.