

Charitarth Chugh

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EDUCATION

UCONN

SCHOOL OF ENGINEERING, COMPUTER SCIENCE

GPA NA

Expected Spring 2025 | Storrs, CT

ACTIVITIES

UCONN AI CLUB

SECRETARY: 2021 - 2022

AI Club does workshops, showcases, and builds projects around deep learning. Led and organized meetings. Helped revive the club for Fall 2021 semester

HACK CLUB

PRESIDENT: 2020 - 2021

VICE PRESIDENT: 2019 - 2020

BOARD: 2018 - 2019

Explore, share, and learn about new technologies, with an emphasis on programming and computer hardware. Led and organized weekly meetings.

VOLUNTEERING

TIME: 220+ HOURS

Volunteered at Trumbull Public Library for their Summer Reading Program

SKILLS

PROGRAMMING

Comfortable:

Java • Flutter • Git • GitHub
Python • Pandas • Plotly
Matplotlib • PyTorch • Numpy

Familiar:

Linux • Shell • \LaTeX • Kotlin
Docker • HTML • CSS

LANGUAGES

English • Hindi (Speaker)
Spanish (Basic)

LINKS

GitHub:// [charitarthchugh](#)

LinkedIn:// [charitrth](#)

Twitter:// [@charitarthchugh](#)

Kaggle:// [charitarth](#)

Medium:// [@charitarth.chugh](#)

PROJECTS

OPINIONMINING

| NATURAL LANGUAGE PROCESSING

October 2021 - Present

- Opinion Mining, also known as Aspect-based Sentiment Analysis (ABSA) is a subfield of sentiment analysis where a model detects one or more entities, aspects and opinions within a textual input.
- Created a BERT model with a custom head that better detects implicit opinion within a given input

EXO-EDA

| DATA ANALYSIS

July - August 2021

- In-depth analysis of exoplanet data from the NASA Exoplanet Archive, using Pandas, NumPy, Seaborn, and Matplotlib.
- Retrieved data using the TAP API to allow users to always have the latest data when running the Jupyter Notebook
- Cleaned large amounts of data for a 36% reduction in memory usage
- Identified planets that reside in the habitable zone of their host star and found that our solar system is a relative anomaly, as the majority of solar systems only host one or two planets

PULSAR IDENTIFICATION

| MACHINE LEARNING

June 2020

- Created a 97% accurate classifier using a custom Logistic Regression model made with Numpy, Pandas, and PyTorch for the classification of pulsars in the HTRU1 dataset

CERTIFICATIONS AND AWARDS

ZERO TO GANS | CERTIFICATION

July 2020

- Given for successful completion of "Deep Learning with Pytorch: Zero to GANs", a six-week online course offered in collaboration by FreeCodeCamp and JovianAI.
- Represents about 60 hours of coursework, which required doing weekly assignments, watching lectures, and a course project
- Gained fundamental math skills that are utilized in machine learning.

ZERO TO PANDAS | CERTIFICATION

August 2021

- Given for successful completion of "Data Analysis with Python: Zero to Pandas", a six-week online course offered in collaboration by FreeCodeCamp and JovianAI.
- Represents about 60 hours of coursework, which required doing weekly assignments, watching lectures, and a course project.

GOOGLE CODE IN | PARTICIPATION

December 2019 - January 2020

- This was a coding competition hosted by Google that introduced pre-university students to open source software development