Charitarth Chugh

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EDUCATION

UCONN
COMPUTER SCIENCE
GPA NA
Expected Graduation: Spring 2025

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:// **charitarth**
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

COINDESK X TRADEBLOCK CRYPTO HACKATHON | 1st Place
February 2022

- With a 5-person team developed a custom momentum based algorithm that detected rises and falls within Bitcoin and Ethereum prices with a custom load factor to detect volumes of trades
- We faced problems with the data such as invalid/null values and high volatility which needed to be accounted for

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, a course project and a Kaggle Competition

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.