

# Charitarth Chugh

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## EDUCATION

### UCONN COMPUTER SCIENCE

Expected Graduation: May 2025

### COURSEWORK

Data Structures and Algorithms  
Upcoming (Fall 2022 & Spring 2023):  
Systems • Cybersecurity •  
Data Manipulation • Computer  
Architecture

## ACTIVITIES

### UCONN AI CLUB

**SECRETARY: 2021 - 2023**

- AI Club does workshops,  
showcases, and projects  
around deep learning.  
- Responsible for planning and  
leading weekly meetings  
- Helped revive the club for  
Fall 2021 semester

### VOLUNTEERING

**TIME: 220+ HOURS**

Volunteered at Trumbull  
Public Library for their  
Summer Reading Program

## SKILLS

### PROGRAMMING

Python:

PyTorch • Transformers •  
Plotly • Matplotlib • Pandas •  
NumPy • FastAPI • SQLAlchemy

Other:

Flutter • Git • GitHub • SQLite •  
Linux • Docker • Podman • CI/CD  
JavaScript • NodeJS • React

Familiar:

Java • Kotlin • Bash • Fish • HTML •  
CSS •  $\LaTeX$  • OpenAPI

### LANGUAGES

English • Hindi (Speaker)  
Spanish (Basic)

## LINKS

GitHub:// [charitarthchugh](#)  
LinkedIn:// [charitarth](#)  
Twitter:// [@charitarthchugh](#)  
Kaggle:// [charitarth](#)  
Medium:// [@charitarth.chugh](#)

## PROJECTS

### BOOKIE | FULL STACK

May 2022-Current

- Bookie is a cross-platform bookmark manager created using Fast API, SQLite and Flutter.
- Served as the Lead Developer and Project Manager in a small team
- Created CLI interface, API, daemon and was responsible for Python packaging.
- Supervised the creation of new features and encouraged standards that promote future maintainability

### OPINIONMINING | NATURAL LANGUAGE PROCESSING

October 2021 - Current

- 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
- Working to integrate model with a rule based sentiment analysis algorithm

### SPAM CLASSIFICATION | 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

### 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 domain-specific API
- Cleaned the data and identified potential planets that reside in the habitable zone of their host star

### NEATBOT | MLOPS

June 2022

- Deployed a NLP model on Google Cloud using Docker
- It is a Discord bot that detects the code language being used and applies the correct Markdown syntax highlighting to the code block

## 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

### ZERO TO PANDAS | CERTIFICATION, AUGUST 2021