

# 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 •  $\text{\LaTeX}$  • OpenAPI • Swagger

### 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 bookmark manager created using Fast API, SQLite and Flutter.
- Served as the Lead Developer and Project Manager in a 4 person team. As the lead developer, I was responsible for the command line interface, API design, daemon, and Python Packaging while also contributing to the creation and design of the Flutter application. In my role as the project manager, I 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

### 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 to allow users to always have the latest data when running the Jupyter Notebook
- 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 as a Discord bot that detects the code language being used and applies the correct Markdown syntax highlighting

## 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