

# Charitarth Chugh

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## EDUCATION

### UCONN COMPUTER SCIENCE & MATHEMATICS-STATISTICS

Expected Graduation: May 2025

### RELEVANT COURSEWORK

Data Structures & Algorithms • Systems Programming • Cybersecurity

Upcoming (Spring 2023):

Data Manipulation • Computer Architecture • Algorithms • Analysis of Experiments

## ACTIVITIES

### UCONN AI CLUB

SECRETARY: 2021 - 2023

- AI Club does workshops, showcases, and projects around deep learning.  
- Responsible for planning and leading weekly meetings

### 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

### 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

- Creating a cross-platform bookmark manager using Fast API, SQLite & 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 a domain-specific API
- Cleaned the data and identified potential planets that reside in the habitable zone of their host star
- Looked for relative anomalies in the data, such as planets orbiting multiple stars
- Found planets with a chance of habitability by

### NEATBOT | MLOPS

June 2022

- Created a Discord Bot that detects code languages being used in a code block and replies with the correct syntax highlighting
- Deployed to Google Cloud Platform using Docker

## 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