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Charitarth Chugh

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EDUCATION

UCONN
COMPUTER SCIENCE & MATHEMATICS-STATISTICS
Expected Graduation: May 2025

RELEVANT COURSEWORK
Data Structures & Algorithms • Systems Programming • Cybersecurity • Data Manipulation
Upcoming (Spring 2023):
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 • 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