

CHANDANA SRINIVASA YATISHA

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Education

New York University

Sep 2022 – May 2024

Master of Science in Computer Engineering; GPA:3.77/4.00

New York, New York

Visvesvaraya Technological University

Sep 2017 – Sep 2021

Bachelor of Engineering in Electronics and Communications Engineering; GPA:3.69/4.00

Bengaluru, India

Experience

NYU Tandon School of Engineering

Sep 2023 – Dec 2023

Course Assistant for EL-GY 9163: Machine Learning for Cybersecurity

New York, New York

- Guided and supported a class of 99 students through ML for Cybersecurity concepts like Adversarial Attacks, Security of LLMs etc. by providing personalized assistance during office hours.
- Collaborated with the course instructors to design and grade assignments, exams, and projects that reflect real-world cybersecurity challenges, enhancing students' practical skills and theoretical knowledge.

Cognitive Development Lab

May 2023 – Nov 2023

NLP Intern

New York, New York

- Supported a doctoral researcher in their research project by scrapping and cleaning 7 GB of raw data from social media websites, performing statistical analysis on the data and applying NLP tools like word embeddings to analyze words.
- Streamlined and enhanced the efficiency of various Database Storage Systems, including REDcap, by implementing data organization strategies and optimizing query performance by 10.2%.

NYU Courant Institute of Mathematical Sciences

June 2023 – Aug 2023

GSTEM Course Assistant

New York, New York

- Assisted students with the implementation of machine learning models using TensorFlow and PyTorch, enhancing their practical skills in developing and training neural networks within the GSTEM summer course at NYU Courant.
- Automated manual data preprocessing tasks using Python scripts, streamlining workflows for student projects and enabling more efficient analysis of complex datasets in STEM applications.

Accenture Research

Aug 2021 – June 2022

Software Developer

Bengaluru, India

- Drove performance optimization by automating training completion tracking and trend analysis using Python and Excel, leading to targeted improvements in essential training processes.
- Enhanced defect tracking efficiency by 15% through the introduction of automated testing and repository maintenance, coupled with a collaborative effort to migrate version control systems to AWS Cloud from Github, ensuring a smooth transition with SDLC practices.

Spacept

Sep 2020 – Nov 2020

Machine Learning Intern

Remote, India

- Compiled an extensive dataset of 5000 radar satellite images (2015-2020) using JavaScript and Google Earth Engine.
- Developed the first iteration of semi-supervised PCA-Kmeans Change Detection algorithm for detecting oil spills in oceanic satellite imagery, utilizing Python to process radar data.

Projects

GNN-based Preference Modeling for Fake News Detection - Analysis and Modification of a Novel Approach

- Investigated the use of Graph Neural Network (GNN) frameworks for fake news detection, considering Exogenous and Endogenous Features.
- Explored modifications to the UPFD GraphSAGE Baseline Model and examined alternative GNN frameworks like Graph Attention Network (GAT) and Graph Isomorphism Network (GIN) to assess their effectiveness in fake news detection.

Climate Pulse - Big Data and NLP Project to analyse trends towards Climate Change

- Engineered a robust data pipeline to scrape over 10,000 Reddit posts and 100,000 comments using PRAW, conducted sentiment analysis with Spark ML and a fine-tuned BERT model, achieving 90% prediction accuracy.
- Constructed a scalable end-to-end data pipeline on GCP, from scraping with Reddit API to storage in MongoDB, analysis in Spark and integration with BigQuery.

ANPR System for the Detection of Unauthorized Vehicles during Government Imposed Lockdowns

- Engineered an advanced image processing algorithm to identify unauthorized vehicles, integrating Canny Edge Detection and Connected Component Analysis for accurate license plate extraction.
- Optimized license plate image clarity using morphological operations, achieving a fail-proof identification system with 92% accuracy and 95% precision, minimizing the need for manual policing.

Technical Skills

Languages: Python, C, HTML/CSS, SQL

Developer Tools and Frameworks: VS Code, Postgres, Google Cloud Platform, GIT, WordPress

Relevant Coursework: Machine Learning, Computing Systems Architecture, Deep Learning, Big Data, Database Management Systems, Network Security