HARSHIT SONI

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science
Master of Science in Computer Science   Aug 2022 – May 2024

Thadomal Shahani Engineering College, Mumbai University, India
Bachelor of Technology in Electronics and Telecommunication Engineering, **GPA:** 3.34/4.00   Aug 2018 – May 2022

TECHNICAL SKILLS & CERTIFICATIONS

***Programming Languages*:** Python, C&C++, Java
***Tools*:** Flask, Selenium, Pandas, NumPy, GIT, MATLAB, Arduino
Skills: Automation, Data Mining, Machine Learning, Math (Linear Algebra, Calculus, and Probability and statistics)

Certifications:
Construct Stock Market Indices from Coursera   Dec 2022
Profit Analysis using Economic Value Added from Coursera   Dec 2022
JPMorgan Software Engineering Virtual Experience on Forage   Sept 2022
• Used Perspective data visualization software and Python to monitor stock price trends and create trading strategies
Git for Developers from Coursera   Oct 2020
• Git for developers using GitHub and Bash
Mathematics for Machine Learning from Imperial College London   July 2020
• Courses: Linear Algebra, Multivariate Calculus, and PCA

PROFESSIONAL EXPERIENCE

RoboticsForSure, Software Engineering Intern   June 2021 – Aug 2021
- Worked on various areas of machine learning, implementing Robotics Process Automation (RPA)
- Successfully automated daily tasks such as data scraping and math calculations, which helped in saving time for the clients
- Deployed live machine learning solution for automation

Fiverr, Freelancer   Mar 2021 – Aug 2021
- Developed and implemented multiple data mining and automation algorithms for international clients
- Created a database for Twitter and news articles for a research paper based on the South African election for one of the clients
- Created and deployed a Twitter Bot which could auto-reply to tweets and retweets in which the account was tagged

Austen C&C, Digital Marketing Intern   June 2019 - July 2019
- Worked with the client servicing team that managed different clients and their requirements, to provide the creatives such as a landing page for branding and marketing
- Worked with SEO and implemented on the client's website

PROJECTS

Stock Market Prediction Using Neural Networks and Social Media Analysis, Team Project   April 2022
- Implemented a neural network model to predict stock market trends using historical data
- Utilized natural language processing techniques to analyze and interpret social media data and news articles
- Applied machine learning techniques to train the model and conducted backtesting to evaluate the performance of the model.

Wear Your Weather, Independent Project   Oct 2020 – Jan 2021
- Developed a Web App that gives weather updates as well as outfit recommendations to go with the weather on that day
- Technologies used: Python, Flask, PostgreSQL Database, HTML, CSS, JavaScript

Twitter Scraper, Independent Project   July 2020 – Aug 2020
- Created a Python script to scrape tweets and tweet details without any Twitter developer account

Fake News Detection, Team Project   July 2020
- Built an ML-based model that detects and labels the questioned news as "fake" or "real" & then provides validated news articles
- Integrated the detector with a Twitter bot which replies to a tweet when tagged, identifying the headline as REAL or FAKE

Python and Arduino Integration, Independent Project   May 2020 – July 2020
- Integrated the Arduino systems with Python language using the Pyfirmata Library, which will run when attached to the system without taking up any space on the Arduino
- Some of the projects include Digital Dice, Tkinter controlled LED, Accelerometer (tilt-sensor), Rotary encoder (angle-sensor)

HONORS & AWARDS

Hackathon   July 2020
- Led a team of 3 to develop a custom Fake News Detection Model using Machine Learning and Natural Language Processing
- Deployed the model on a web app, alongside a Twitter BOT
- Placed 2nd out of the 49 teams

IEEE Xplore Research Paper   Sept 2021
- Led a team of 4 for the research and development of the paper "Fake News Detection Using Natural Language Processing and Logistic Regression"
- Received a certificate for excellent team presentation

INTERESTS
- Math and Finance