

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 **Aug 2018 – May 2022**

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Java, SQL

Tools: Flask, Selenium, Pandas, NumPy, GIT, MATLAB, Arduino, Scikit-learn, TensorFlow, Keras, Statistical Modeling.

Skills: Automation, Data Mining & Analysis, Machine Learning, Math (Linear Algebra, Calculus, and Probability and statistics)

PROFESSIONAL EXPERIENCE

Graduate Grader for Machine Learning course, SUNY Binghamton **Jan 2023 – Present**

- Demonstrating expertise in Machine Learning for grading projects, and exams and providing constructive feedback.
- Collaborating with the professor and teaching assistants to ensure grading consistency and accuracy, while also assisting students with questions and concerns, demonstrating professionalism and a strong understanding of the course content.

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 of all the data extraction

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.
- Provided the creatives such as landing pages for branding and marketing of the client with specified requirements.
- Worked with SEO and implemented it on the client's website to understand their level of engagement with the users.

PROJECTS

Stock Market Prediction Using Neural Networks and Social Media Analysis, Team Project **April 2022 – May 2022**

- Implemented a neural network model to forecast the 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, SQL 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
- Utilized libraries such as BeautifulSoup and Selenium to scrape them and visualized the data using matplotlib and pandas

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, made specifically designed to integrate them
- Program will always 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)

CERTIFICATIONS

Construct Stock Market Indices from Coursera **Dec 2022**

Profit Analysis using Economic Value Added from Coursera **Dec 2022**

JPMorgan Software Engineering Virtual Internship 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**

Mathematics for Machine Learning from Imperial College London **July 2020**

- Courses: Linear Algebra, Multivariate Calculus, and PCA

LEADERSHIPS & HONORS

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, utilizing technologies such as Flask and Twitter API respectively
- 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