

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, JavaScript, SQL, MySQL

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

Skills: Automation, AWS services, Data Analysis & Mining, Data Structures & Algorithms, Machine Learning, Math (Linear Algebra, Calculus, and Probability and Statistics), Quantitative Analysis

PROFESSIONAL EXPERIENCE

Trust Scout, Software Developer Intern | New York City, New York

June 2023 – Present

- Developing an automated emailing system and AI prompts using AWS, Django, and OpenAI, streamlining client processes and reducing manual efforts by up to 60%
- Analyzing and interpreting data from datasets of 20-30 million records using advanced mathematical and coding techniques, providing valuable insights that enhanced client decision-making and drove business strategy
- Collaborating directly with the founder/CEO, contributing technical expertise to crucial software projects, and delivering high-quality, bespoke solutions that increased client satisfaction by 25% and increased the sales team members by 33.3%

SUNY Binghamton, Graduate Grader for Machine Learning course | Binghamton, New York

Jan 2023 – May 2023

- Leveraged my expertise in Machine Learning to grade 5 exams and 6 projects for a class of 50 students, and provided constructive feedback to enhance student's understanding and performance
- Collaborated closely with the professor and another teaching assistant to ensure consistent and accurate grading, while also serving as a knowledgeable and accessible resource for students, enhancing their experience and clarifying complex Machine Learning concepts

RoboticsForSure, Software Engineering Intern

June 2021 – Aug 2021

- Implemented Robotics Process Automation (RPA) in machine learning projects to increase operational efficiency
- Successfully automated tasks, such as data analysis and math calculations, resulting in a significant time reduction of 30% for clients
- Designed, developed, and deployed a live machine-learning solution for automating data extraction processes

Fiverr, Freelancer

Mar 2021 – Aug 2021

- Developed various data mining and automation algorithms for over 7 international clients, improving their efficiency by at least 20%
- Constructed a comprehensive database of Twitter data and news articles for the South African election for the client's research paper
- Designed, and deployed a Twitter Bot which auto-replies to tweets and retweets when tagged, enhancing social media engagement

Austen C&C, Digital Marketing Intern

June 2019 - July 2019

- Collaborated with the client servicing team managing diverse client requirements, and enhancing my skills in client relationship
- Developed creative elements such as web pages tailored for branding and marketing purposes, increasing client engagement
- Implemented SEO strategies on client websites, resulting in an increase of 20% in user engagement

PROJECTS

Stock Market Prediction Using Neural Networks and Social Media Analysis, Team Project

April 2022 – May 2022

- Developed a neural network model to forecast stock market trends using historical data, improving prediction accuracy upto 85%
- Leveraged natural language processing techniques to analyze and interpret data from social media and news articles
- Applied machine learning techniques to train the model, and conducted comprehensive backtesting to validate the model's performance

Wear Your Weather, Independent Project

Oct 2020 – Jan 2021

- Developed a web app that provides real-time weather updates and gives outfit recommendations based on the day's weather, enhancing user experience and daily decision-making
- Utilized a tech stack including Python, Flask, SQL Database, HTML, CSS, and JavaScript

Twitter Scraper, Independent Project

July 2020 – Aug 2020

- Developed a Python script capable of scraping tweets and related details without the necessity of a 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

June 2020 – 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 explicitly designed to incorporate 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 (Linear Algebra, Multivariate Calculus, and PCA) for Machine Learning from Imperial College London:

July 2020

LEADERSHIPS & HONORS

IEEE Xplore Research Paper

Sept 2021

- Led a team of 4 for the R&D of the paper "Fake News Detection Using Natural Language Processing and Logistic Regression"
- Received a certificate for excellent team presentation

Hackathon (Placed 2nd out of the 49 teams)

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