HARSHIT SONI

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EDUCATION

Binghamton University, State University of New York *Expected May 2024*

Master of Science in Computer Science, Concentration in Artificial Intelligence | **Cumulative GPA:** *3.55 /4.00*

Relevant Courses: Data Structures and Algorithms, Machine Learning, Artificial Intelligence, Programming Language, Design Patterns

Mumbai University *May 2022*

Bachelor of Technology in Electronics and Telecommunication Engineering

TECHNICAL SKILLS

Languages: Python, SQL, C, C++, HTML/CSS, JavaScript, Java

Tools: Flask, AWS (S3, EC2, IAM), GCP, Pandas, NumPy, GIT, MATLAB, Scikit-learn, TensorFlow, Keras, Cuda, Shell

Additional: Automation, Data Analysis, Quantitative Analysis, Statistical Modeling, Selenium, NLP, Image Processing, RDMS

Certifications: JPMorgan Software Engineering Virtual Internship Experience, Construct Stock Market Indices, Profit Analysis using Economic Value Added, Git for Developers, Mathematics for Machine Learning

PROFESSIONAL EXPERIENCE

Trust Scout, *Software Engineering Intern* | New York City, NY **Jun 2023 – Aug 2023**

- Engineered an automated email system and AI-driven prompter, reducing manual efforts by 80%, elevating client interaction by **40%**
- Led data analysis on **10M** real estate transactions and **1.6M** agents, delivering insights that directly improved decision making and enhanced client relations, through statistical modeling and machine learning models
- Collaborated with the **Founder/CEO** to enhance database and marketing strategies, resulting in a 25% increase in client satisfaction and a **33.3%** growth in the sales team. Technologies utilized: Python, AWS, Django, PostgreSQL, APIs, and OpenAI

RoboticsForSure, *Software Engineering Intern* | Remote **Jun 2021 – Aug 2021**

- Implemented Robotics Process Automation (RPA) within ML and **C++** projects, achieving a **30%** reduction in processing time by automating data preparation phases for clients
- Automated data analysis and math operations, and developed live ML solutions via the Google Cloud and AWS for data extraction

Fiverr, *Freelancer* | Remote **Mar 2021 – Aug 2021**

- Delivered custom data mining and automation algorithms for **7+ international** clients, boosting efficiency by 10-25%
- Constructed a comprehensive database for South African election research analysis using Twitter data and news articles
- Designed and deployed a Twitter Bot for auto-replies and retweets, enhancing client social media engagement

RESEARCH EXPERIENCE

Binghamton University, *Research Assistant for Human-Computer Interaction* **Jan 2024 – Mar 2024**

- Researched to enhance real-time ASL recognition by application of ML models, image processing, and Natural Language Processing
- Advanced models through Neural networks, and computer vision to tackle research challenges of hand recognition

Binghamton University, *Research Assistant for Semiconductor Fabrication* **Jan 2023 – May 2023**

- Researched the feasibility of ML (Pytorch, CUDA) autoencoder for optimizing microscopic filter design in semiconductors
- Formulated an exploratory algorithm using Neural Networks to fabricate semiconductors

PROJECT EXPERIENCE

Analyzing Stock Market Sentiment and Price Movements, *Team Project* **Aug 2023 – Dec 2023**

- Led full-stack development of predictive analytics model for social media sentiment analysis and S&P 500 stocks
- Leveraged NLP and statistical methods for sentiment and data-driven market insights
- Managed real-time data collection from Reddit (6k posts, 80k comments) and Yahoo APIs for trending stocks, using PostgreSQL
- Developed Flask dashboard with Matplotlib for visualizing sentiment dependencies, utilized remote server, Docker, and Python

Wear Your Weather, *Independent Project* (link) **Oct 2020 – Jan 2021**

- Created a dynamic web application delivering real-time weather updates using APIs and personalized outfit suggestions, enhancing user experience and daily decision-making. Tech stack utilized: Python, Flask, SQL, HTML/CSS, and JavaScript

Python and Arduino Integration, *Independent Project* (link) **May 2020 – Jul 2020**

- Integrated Arduino systems with Python via the Pyfirmata Library, enabling seamless communication between OS and Arduino
- Engineered a program for the Arduino to run continuously, optimizing board space without occupying memory

LEADERSHIP & HONORS

Binghamton University, *Graduate Grader* **Jan 2023 – Dec 2023**

- Created and graded 5 assignments, 6 projects, and 5 exams for 45 students for Machine Learning Course

IEEE, Published Research Paper **'Fake News Detection Using NLP and Logistic Regression'** **Sept 2021**

Hackathon (*Secured 2nd out of the 49 teams)* (link) **Jul 2020**

- Led a team of 3 to develop a '**Fake News Detection Model using Machine Learning and Natural Language Processing'**
- Built an ML model to classify news as "fake" or "real," providing users with verified news, enhancing digital media's reliability
- Integrated the model with a Twitter bot that replies to a tweet when tagged, a stand-out feature that elevated the project