HARSHIT SONI

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EDUCATION

Binghamton University, State University of New York   **Aug 2022 – May 2024**
Master of Science in Computer Science with Artificial Intelligence track | **Cumulative GPA: 3.55 /4.00**
Relevant Courses: Data Structures and Algorithms, Machine Learning, Artificial Intelligence, Programming Language, Design Patterns

Mumbai University   **Aug 2018 – May 2022**
Bachelor of Technology in Electronics and Telecommunication Engineering

TECHNICAL SKILLS

***Programming Languages*:** Python, C, C++, SQL, Java, JavaScript
***Tools*:** Flask, Selenium, Pandas, NumPy, GIT, MATLAB, Arduino, Scikit-learn, TensorFlow, Keras, Statistical Modeling, Cuda, Shell
Skills: Automation, AWS Services (S3, EC2, IAM), GCP, Data Analysis, Math, Quantitative Analysis, NLP, Image Processing, RDMS

PROFESSIONAL EXPERIENCE

Trust Scout, Software Engineering Intern | New York City, New York   **June 2023 – Aug 2023**
- Engineered an automated email system and AI-driven prompter, reducing manual email efforts by 80% and elevating client interaction by 40%
- Led data analysis on 30M 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 of the sales team. Technologies utilized: Python, AWS, Django, PostgreSQL, and OpenAI

RoboticsForSure, Software Engineering Intern | Remote   **June 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 cloud platforms for data extraction

Fiverr, Freelancer | Remote   **Mar 2021 – Aug 2021**
- Delivered custom data mining and automation algorithms for 7+ international clients, boosting efficiency by 20%
- Constructed a comprehensive database for South African election 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 with Professor Yincheng JIn | Binghamton, New York   **Jan 2024 – Present**
- Specializing in HCI research to enhance real-time ASL recognition by application of ML models, image processing, and NLP
- Actively advancing models through Neural networks, and computer vision to tackle research challenges of hand recognition

Binghamton University, Research Assistant with Professor Adnan Rakin | Binghamton, New York   **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

Stock Market Prediction Using Neural Networks and Social Media Analysis, Team Project   **April 2022 – May 2022**
- Led the development of a neural network to predict stock market trends with 85% accuracy by analyzing historical data, and social media and news articles via NLP
- Implemented ML training techniques and backtesting to ensure model reliability and performance

Wear Your Weather, Independent Project (link)   **Oct 2020 – Jan 2021**
- Developed a web app that provides real-time weather updates and gives outfit recommendations, enhancing user experience and daily decision-making. Utilized a stack including Python, Flask, SQL, HTML/CSS, and JavaScript

Python and Arduino Integration, Independent Project (link)   **May 2020 – July 2020**
- Integrated the Arduino systems with Python language using the Pyfirmata Library, explicitly created to incorporate them
- Innovated program will always run when attached to the system without taking up any space on the Arduino

LEADERSHIP & HONORS

Binghamton University, Graduate Grader for Machine Learning course | Binghamton, New York   **Jan 2023 – Dec 2023**
Published Research Paper 'Fake News Detection Using NLP and Logistic Regression', IEEE   **Sept 2021**
Hackathon (Secured 2nd out of the 49 teams) (link)   **July 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