

HARSHIT SONI

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EDUCATION

Binghamton University, State University of New York

May 2025

Master of Science in Computer Science, Artificial Intelligence Track

| **Cumulative GPA: 3.6 /4.00**

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

TECHNICAL SKILLS

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

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

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

Certifications: SUNY Startup Summer School Class of 2024, JPMorgan Software Engineering Virtual Internship Experience, Mathematics for Machine Learning, Construct Stock Market Indices, Profit Analysis using Economic Value Added, Git for Developers

PROFESSIONAL EXPERIENCE

Julius Education, Machine Learning Engineer | New York, NY

Jun 2024 – Sept 2024

- Developed and deployed machine learning models for career dashboards, leveraging AI, RAGs, and prompt engineering techniques to optimize sentence structure for dashboard renewable roles, improving data clarity for green labor seekers
- Led data labeling, web scraping, and cloud storage & tableau integration for government data, ensuring accuracy for analytics
- Collaborated with the **VP** on client projects, such as developing data pipelines (including for NREL) and Google Analytics dashboards

Trust Scout, Software Engineering Intern | New York, NY

Jun 2023 – Aug 2023

- Engineered an automated email system and AI-driven prompter, reducing manual efforts and increasing client replies by **40%**
- Led data analysis on **10M** real estate transactions and **1.6M** agents using statistical modeling, machine learning models, and big data storage, delivering insights that directly improved decision-making and enhanced client relations
- Collaborated with the **Founder/CEO** to optimize business database and marketing strategies, increasing client satisfaction and expanding the sales team by **33.3%**. Tech stack: Python, AWS, Django, PostgreSQL, APIs, OpenAI

RoboticsForSure, Software Engineering Intern | Remote

Jun 2021 – Aug 2021

- Implemented Robotics Process Automation (RPA) into ML and C++ projects, automating data preparation phases for clients and reducing processing time by **30%**
- 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 – Human-Computer Interaction

Jan 2024 – Mar 2024

- Researched ML model integrating computer vision and natural language processing (NLP) to translate real-time ASL into English text
- Improved hand recognition accuracy using neural networks and image processing for more precise ASL interpretation

Binghamton University, Research Assistant – Semiconductor Fabrication

Jan 2023 – May 2023

- Researched ML autoencoder models to develop microscopic filter designs for faster semiconductor manufacturing
- Trained an adversarial model (PyTorch, CUDA) to predict and generate filter shapes based on light transmission across wavelengths

IEEE, Published Research Paper Title ‘Fake News Detection Using NLP and Logistic Regression’

Sept 2021

PROJECT EXPERIENCE

Zillow Page Summarizer: Chrome Extension Assistant, Independent Project ([link](#))

Jul 2024 – Sept 2024

- Developed an extension that summarizes Zillow property listings, providing real-time insights using web scraping and NLP
- Built the extension’s backend with the Flask framework and integrated LLM for sentence processing and APIs for data retrieval
- Tech stack: LLM, Python, Flask, Pyzill, API, HTML/CSS, JavaScript, Chrome Extension Framework, Natural language Processing

Analyzing Stock Market Sentiment and Price Movements, Team Project

Aug 2023 – Dec 2023

- Developed a full-stack predictive analytics model using NLP and statistical method to analyze social media sentiment and S&P stocks
- Managed real-time data collection from Reddit (6k posts, 80k comments) and Yahoo APIs using PostgreSQL
- Developed Flask-based dashboard with Matplotlib for sentiment visualization, deployed via Docker on remote servers

Wear Your Weather, Independent Project ([link](#))

Oct 2020 – Jan 2021

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

LEADERSHIP & HONORS

Hackathon (Secured 2nd out of the 49 teams) ([link](#))

Jul 2020

- Led a team of three 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