

SHRAVANI CHERUPALLY

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EDUCATION

Binghamton University, Thomas J. Watson College of Engineering and Applied Science

Binghamton, New York

Master of Science in Computer Science

May 2024

Cumulative GPA: 3.59/4.00

Relevant Coursework: Design Patterns, Social Media Data Science Pipeline, Design & Analysis Comp Algorithms, Operating Systems, Computer Architecture and Organization, Intro to Computer Security, Computer Networks, Programming Languages

Gokaraju Rangaraju Institute of Engineering and Technology

Hyderabad, India

Bachelor of Technology in Electronics and Communication Engineering

September 2020

Cumulative GPA: 3.94/4.00

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, C, SQL, PL/SQL, HTML, CSS, LabVIEW, MATLAB

Tools: Oracle SQL Developer, MySQL Workbench, Visual Studio Code, Jupyter Notebook, Git, GitHub, Microsoft Office, Factory Job Scheduler, Web Crawler (4Chan API)

Frameworks: React, Angular, Node.js (with Express.js), Flask

Certifications: Microsoft Technical Associate in Networking Fundamentals

PROFESSIONAL EXPERIENCE

Binghamton University - Teaching Assistant | Binghamton, NY, USA

August 2023 – May 2024

- Built coursework, curriculum, and subject material for the Computer Tools for Management course, teaching and engaging with 174 students to foster an interactive and engaging learning environment
- Implemented teaching methodologies, integrating real-world scenarios and interactive sessions to enhance student engagement, resulting in a notable 15% improvement in overall academic performance

Tata Consultancy Services - Assistant System Engineer | Hyderabad, India

August 2020 – August 2022

- Excelled in quality assurance through comprehensive test reporting, execution, and bug detection. Identified, documented, and reported bugs in proprietary software applications, leading to a 75% improvement in system efficiency
- Utilized PL/SQL for backend development and implemented Agile Methodology and JIRA to optimize test case execution, showcasing 100% proficiency through analysis and effective issue resolution
- Automated key functionalities, resulting in a cost efficiency improvement of up to 96%, reducing manual workload, improving productivity, and contributing to overall project efficiency

PROJECT EXPERIENCE

Fitness Planner, Web Developer | Independent Project | Binghamton, NY, USA

February 2024 – Present

- Continuing development of Fitness Planner Web Application to provide users with a user-friendly interface for accessing workout plans and instructional content
- Implementing responsive design principles to ensure seamless usability across various devices, with continuous updates to enhance user engagement and satisfaction.

SMS Spam Detection Analysis, Developer | Independent Project | Binghamton, NY, USA

January 2024 – May 2024

- Leveraged the SMS Spam Collection dataset to develop a machine learning model for spam detection in SMS messages
- Utilized a dataset from Kaggle, this ongoing project involves analyzing 5,574 SMS messages in English, tagged as ham (legitimate) or spam, laying the groundwork for applying natural language processing techniques
- Implemented comprehensive preprocessing, strategic input splitting, and training a classification model, the project achieved improvement in SMS spam detection accuracy ranging from 86% to 97%

Reddit Sentiment Analysis, Web Developer | Group Project | Binghamton, NY, USA

October 2023 – December 2023

- Implemented a scheduled data collection system leveraging Python scripts and Reddit developer API to gather post-related information of 92,000 posts from the Reddit platform regarding the India-Canada feud
- Developed a web-based UI using Angular and Flask for the REST API, executed hate-speech analysis with the ModerateHateSpeech API setting a confidence threshold of 0.6
- Produced over 350 word-clouds and 15 sentiment analysis graphs, vividly portrayed in the UI through a word-cloud evolution animation and graphical representations

Digit Recognizer, Developer | Group Project | Hyderabad, India

December 2022 – January 2023

- Developed a 11-stage Convolutional Neural Network to identify hand-written digits, by training the model with a huge data of 75,000 images and obtaining an accuracy of 92%

LEADERSHIP EXPERIENCE

Internshala, Internshala Student Partner

June 2018 – September 2018

- Fostered a collaborative environment among 400 students through engagement, seminars and community building activities
- Educated about several hundreds of available technical internships and online trainings for academic and professional growth