Ramani Manasa Devarabhatla

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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   *Expected November 2024*
Cumulative GPA: 3.73/4.00
Relevant Coursework: Programming Languages, Programming for Web - MERN Stack, Database Systems, Design and Analysis of Algorithms, Computer Networks, Operating systems, Computer Architecture and Organization.

B V Raju Institute of Technology, Hyderabad, India
Bachelor of Technology in Computer Science   *June 2020*
Cumulative GPA: 3.85/4.00

TECHNICAL SKILLS

Languages: Python, Java, C, HTML, CSS, Bootstrap, JavaScript, PLSQL
Database/Frameworks: PostgreSQL, MongoDB, Flask, TensorFlow, Angular, React, NumPy, Pandas, ScikitLearn
Certifications: Machine Learning (Standford University - online), Python
Dev Tools: MATLAB, Jupyter Notebook, Visual Studio Code, Git, Postman, Microsoft Office Suite

ACADEMIC EXPERIENCE

Binghamton University, *Programming for the Web Grader Assistant* | Binghamton, NY   *August 2023 – December 2022*
- Assisted in Building the coursework, curriculum, and subject material for a class of 42 graduate and undergraduate students.
- Facilitated Project demos, Proctored exams, Graded assignments and helped students with their coursework.

TEDx Volunteer, Binghamton University, *Binghamton NY*   *February 2023 – March 2023*
- Sold tickets and managed ticketing operations for events, provided exceptional customer service to event attendees by answering questions, addressing concerns, ensuring smooth and efficient tabling processes.

PROFESSIONAL EXPERIENCE

Seneca Global IT Services Pvt Ltd, Software Engineer -I/Intern | Hyderabad, India   *Jan -Mar 2020/Nov 2020-Jul 2022*
- **Human Resource Management System**:
  - Designed and developed user interfaces using AngularJS best practices.
  - Created full-fledged webpages using JavaScript, CSS, Bootstrap, and HTML.
  - Software coded in Python and used Flask Framework for the backend, Developing REST API for UX integrations.
  - Coordinated with development teams to determine application requirements. Reprogrammed existing databases to improve functionality. Collaborated closely with Design and Testing team members and learnt how to develop robust solutions to meet client requirements for functionality, scalability, and performance.
- **JD Edwards CNC Administrator**, *Client - Treehousefoods*
  - Managed and administered JD Edwards EnterpriseOne (JDE E1) environments, including installation, configuration, and maintenance of JDE software components and systems.
  - Provided technical support, training, and documentation to end-users and IT staff on JDE E1 functionality, best practices, and troubleshooting procedures.

ACADEMIC PROJECTS

Brain Tumor Detection using CNN | Binghamton University   *September 2019 – December 2023*
- Preprocessed and augmented image data using Tensorflow Keras to improve model performance. Implemented transfer learning with DenseNet201 model architecture for feature extraction.
- Attained a training accuracy of 90% on a dataset comprising over 20,000 images covering 4 types of tumors.

Spreadsheet Development, *Independent Project* | Binghamton University   *June – August 2023*
- Implemented a complete spreadsheet functionality using Typescript/Javascript, MongoDB, web services and React JS

Flight Fare Prediction Analysis, *Independent Study*   *September – December 2023*
- Performed exploratory data analysis and compared various machine learning regression algorithms to predict flight fares based on the historical data, departure city, arrival city, departure time, arrival time, airline, duration, number of stops, etc. achieving accuracy around 75%.

Real-time Object Detection for Visually Impaired Users with Auditory feedback | Hyderabad-India   March – *May 2020*
- Implemented an AI-based model capable of providing explicit information about detected objects from a live video feed.
- Designed an auditory feedback system that offers direction guidance to the users based on the distance to detected objects.
- Received positive feedback and interest from users, demonstrating the project's potential to improve the daily lives of visually impaired individuals.