RAVINDRA BABU DEVABHAKTUNI

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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 *May 2024*
Cumulative GPA: 3.51/4.00
Relevant Coursework: Programming Languages, Design & Analysis of Algorithms, Design Patterns, Database Systems, Data Mining, Cloud Computing, Software and Engineering Project Management, Operating Systems, Computer Architecture & Organization

Koneru Lakshmaiah Education Foundation
Bachelor of Technology in Computer Science and Engineering *May 2022*
Cumulative GPA: 4.00/4.00

TECHNICAL SKILLS

Languages and Scripting Languages: Python, Java, C, JavaScript, HTML, CSS
Tools and Frameworks: React, Spring Boot, Django, Flask, Docker, Kubernetes, Git, GitHub
Database and Others: Oracle, PL/SQL, PostgreSQL, MongoDB, Machine Learning Algorithms, Data Structures
Certifications: Advanced Machine Learning, Automation Anywhere Certified Advanced RPA Professional

PROFESSIONAL EXPERIENCE

Avishkar Tech Solutions, *Artificial Intelligence Intern* | Hyderabad, India *May 2020 – August 2020*

- Developed an AI-powered chatbot using Python and TensorFlow, integrating ML algorithms including recurrent neural networks (RNNs) and long short-term memory (LSTM) networks to understand and respond to user queries effectively
- Achieved a 15% increase in accuracy through data preprocessing and fine-tuning of the chatbot's neural network architecture, resulting in increased user engagement and satisfaction
- Conducted thorough research on user interaction patterns and incorporated sentiment analysis techniques to further refine the chatbot's responses

PROJECT EXPERIENCE

Stock Price Forecasting and Trading Strategy Optimization, *Machine Learning Engineer*| Independent Project

- Utilized machine learning techniques (RF, SVM, NN) for stock forecasting and trading, achieving over 10% positive predictions, and enhanced performance through feature selection, model ensembling, and AdaBoosting
- Developed a Reinforcement Learning trading policy using policy gradient and Q-learning, integrating predictive models for optimal decision-making, achieving significant returns with a Sharpe Ratio of 2.5

Global Job Analysis and Visualization, *Full Stack Developer*| Independent Project

- Executed a comprehensive analysis of global job postings using MongoDB, uncovering insights on job trends, company hiring patterns, salary distribution, and job preferences
- Established a user-friendly web interface utilizing HTML and CSS, enabling users to examine and analyze the results of the analysis interactively

Cloud-Based Health Management System, *Team Member*| Group Project

- Developed a cloud-based platform for instant access to EHRs for healthcare providers and patients using MongoDB for data management, Node.js for backend, Docker for containerization, and Kubernetes for video conferencing
- Implemented secure logins to protect the privacy of data and demonstrated expertise in containerization and front and back-end development

Sentiment and Hate Speech Analysis Dashboard, *Full Stack Developer*| Independent Project

- Designed and built a web dashboard using Flask and PostgreSQL to analyze and visualize sentiment and hate speech trends from Reddit, 4chan, YouTube, and political discussions
- Leveraged Matplotlib for dynamic data visualizations and established comprehensive data querying and error handling to ensure an effective user experience

Library Management System, *Backend Developer*| Independent Project

- Architected and engineered a feature-rich Library Management System using Java and employed Spring Boot to improve maintainability and streamline development
- Integrated MySQL database for management of books and borrowers, ensuring optimal library operations

Project Management Dashboard, *Frontend Developer*| Independent Project

- Created and deployed a dynamic project management dashboard with JavaScript and React and crafted attractive user interfaces for smooth task delegation, project monitoring, and progress tracking
- Utilized the use of JavaScript libraries such as jQuery for enhanced scalability and responsiveness in project management

PUBLICATIONS

Dr. T, Dr. Pvvs, **Ravindra Babu Devabhaktuni**, Vamsi, P, & B. (2022). Detection of COVID Disease from CT Scan Images using CNN Model. *2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)* (pp. 1-6). IEEE. https://doi.org/10.1109/ICAIS53314.2022.9742758