Yasaswini Reddy Gunturu

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SUMMARY

Results-oriented Software Developer with a passion for leveraging Python, Java, and web technologies to deliver impactful solutions. Proven track record in managing diverse priorities, fostering seamless team collaboration, and consistently meeting high-quality benchmarks. Strong problem-solving skills and critical thinking abilities. Holds a Master's in Computer Information Science with a GPA of 3.45. Offers a rich background encompassing software development, data science, and microcontroller design. Committed to staying abreast of industry trends and bringing a customer-centric approach to every project.

SKILLS

Programming Languages: Core Java, Python, C
Web Development: React.js, HTML, CSS
Operating Systems and Shell Scripting: Linux, Shell, Bash
Database Management: SQL, MSSQL
Cloud Computing: Azure
Natural Language Processing (NLP) and Machine Learning Frameworks: NLP, PyTorch, TensorFlow, Keras
Data Visualization: Tableau
Computer Vision: OpenCV
Soft Skills: Customer-Centric Approach, Team Collaboration, Communication, Problem-Solving, Adaptability, Time Management, Critical Thinking, Leadership

EXPERIENCE

IS&T Technical Support Assistant, Cleveland State University, Cleveland, OH,USA **Aug 2022-Current**

- Identified issues, analyzed information and provided solutions to problems.
- Demonstrated respect, friendliness and willingness to help wherever needed.
- Provided technical office support in a professional environment.
- Re-imaged the computer devices in an efficient manner.

Graduate Teaching Assistant – CIS 430/530 – Intro to database systems and procedures **Aug 2023 – Dec 2023**

- Assist in delivering lectures and clarifying concepts related to databases and SQL.
- Conduct office hours for individual student support and guidance on SQL queries.
- Grade assignments and provide feedback on SQL code, emphasizing best practices.
- Lead or assist in lab sessions and homework assignments involving SQL and databases.
- Guide students through database projects, focusing on schema design and implementation.
- Monitor and respond to student questions on forums or platforms related to SQL and databases.
- Assist in exam administration, especially for SQL-related questions, ensuring a fair testing environment.
- Stay informed on the latest developments in databases and SQL to enhance teaching effectiveness.
- Collaborate closely with the instructor to align teaching strategies and goals for the course.

Data Science Intern, Verzeo, Hyderabad, Telangana, India **Sep 2021-Dec 2021**

- Created visualization for latest covid-19 data in India as well as all the states using Tableau desktop.
- Implemented a forecasting model using FB Prophet for a particular dataset.
- Utilized Tableau Desktop to design and implement comprehensive visualizations for tracking and analyzing the latest Covid-19 data in India and its states.
- Employed advanced features in Tableau to create interactive dashboards, effectively conveying intricate patterns and insights present in the Covid-19 dataset.
- Implemented a forecasting model using Facebook Prophet, an open-source tool for time-series analysis and prediction.
- Conducted thorough analysis and preprocessing of the dataset to ensure compatibility with FB Prophet's requirements.
- Fine-tuned model parameters and interpreted results to provide accurate and actionable forecasts for the specified data.
- Applied best practices in data science and visualization to contribute meaningfully to Verzeo's projects during the internship from September 2021 to December 2021 in Hyderabad, Telangana, India.

Technologies used: Python, Tableau, FBProphet.

Microcontroller and PCB Design Intern, NSIC, Ltd., Telangana, India **May 2020-June 2020**

- Played a key role as a Microcontroller and PCB Design Intern at NSIC, Ltd., Telangana, India from May 2020 to June 2020.
- Demonstrated expertise in designing a diverse range of circuits, including Power supply circuits, Sensor-based circuits, Optical communication circuits, Audio amplifier circuits, R.F communication circuits, Encoder & Decoder circuits, and Electromagnetic interfacing circuits.
- Led strategic planning sessions to streamline and optimize design management processes, fostering efficient collaboration within the team.
- Actively monitored and ensured the progress of work, emphasizing high standards of quality and speed in the design and implementation phases.
- Successfully integrated, implemented, and enhanced the designed circuits, contributing to the overall project objectives.

- Gained valuable hands-on experience in microcontroller circuits and PCB design methodologies during the internship.

PROJECTS

Pulmonary Embolism detection from CTPA images **Mar 2022- Jun 2022**

- Objective: To analyze and detect disease from the scans and reports of patients thereby suggesting the required treatment.
- Description: A research project focused on developing an automated system for detecting pulmonary embolism from CTPA (Computed Tomography Pulmonary Angiography) images.
- Implemented advanced image processing techniques and machine learning algorithms to analyze CTPA images and identify potential signs of pulmonary embolism.
- Collaborated with a team of 3 to collect, preprocess, and curate a diverse dataset of CTPA images for training and validation.
- Employed state-of-the-art deep learning models, such as convolutional neural networks (CNNs), to achieve accurate and reliable detection results.
- Conducted extensive experimentation and fine-tuning to optimize the model's performance, achieving [mention accuracy, precision, or other metrics] on the test dataset.
- Utilized Python and popular libraries like TensorFlow, Keras, and OpenCV for the implementation and evaluation of the model.
- Presented the research findings to internal team presentation, Head of the department as well as an external team, receiving positive feedback on the potential clinical impact of the project.
- Demonstrated strong problem-solving and critical thinking skills in addressing challenges related to image quality, noise reduction, and class imbalance.
- This project deals with a detailed study to suggest an appropriate treatment by analyzing the scans and reports of the patient.
- It presents a multi- stage CNN for automated detection of PE from CTPA images. The first stage detects the suspected PE and the second stage is used to eliminate false positives.

Technologies used: Advanced image processing techniques, machine learning algorithms (including CNNs), Python, TensorFlow, Keras, and OpenCV.

Gesture Controlled Air Mouse **Oct 2021- Jan 2022**

- Objective: Air Mouse is different from the conventional mouse as it doesn't need any surface to function.
- Description: Developed a gesture-controlled air mouse, eliminating the need for a surface, by leveraging Python as the scripting language.
- Utilized an accelerometer sensor to accurately capture the axes X, Y, and Z movements, ensuring precise control of the air mouse.
- Implemented Bluetooth connectivity to enable seamless communication between the air mouse and the controlling device.
- Employed a microcontroller board to enhance the responsiveness and accuracy of the air mouse.
- Demonstrated the alignment's integrity by printing the real-time coordinates, showcasing the reliable tracking of hand gestures.
- Showcased successful hardware integration and software development skills to create an innovative user interface.

Technologies used: Python (scripting language), accelerometer sensor, Bluetooth connectivity, microcontroller board.

EDUCATION

Master of Science | Computer Information Science **Aug 2022-Aug 2024**

Cleveland State University, Cleveland, OH, USA

GPA: 3.45

Coursework: Data Structures and Algorithms, Computer Architecture(Adv), Database Concepts and Procedures, Comparative Programming Languages, Analysis Of Algorithms, Architecture and OS, Distributed Systems, Software Quality Assurance.

Bachelor of Technology | Electronics and Communication Engineering **Aug 2018-Jul 2022**

Anurag College of Engineering, Hyderabad, Telangana, India

GPA: 7.03

Coursework: Network Security and Cryptography, Python, Data Communications and Network, CyberSecurity, OOPs through Java and various other subjects related to core field.

CERTIFICATIONS

- Python for Data Science and Machine Learning bootcamp [Udemy] Apr 2022
- AI master class[Coursera] Jan 2022
- Data Science with Python[Coursera] Dec 2021
- Microcontroller Embedded C programming [Udemy] Nov 2021