Siva Sagar

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Education

Andhra University, Visakhapatnam **(Jul 2020 - Apr 2024)**

- Bachelor of Technology, Computer Science & Systems Engineering **(GPA: 7.70/10.0)**
- **Coursework:** Data structures & Algorithms, Object Oriented Design, Artificial Intelligence, Database Management Systems, Operating Systems, Computer Networks, Cloud.

Skills

- **Programming Languages:** Python, Java, JavaScript, HTML, CSS, C.
- **Frameworks/Libraries:** Flask, Tensorflow, Java Server Pages (JSP), OpenCV, Apache Tomcat, Ollama.
- **Databases:** MySQL, PostgreSQL, SQLite.
- **AI/ML:** Machine Learning (ML), Convolutional Neural Networks (CNN), Real-time facial emotion recognition
- **Web Development:** Full-Stack Development, Web Application Development, RESTful APIs, API Integration
- **Tools & Methodologies:** Git, Data Structures & Algorithms, System Design, Chatbot Development, Email Automation
- **Other Interests:** Photography, Competitive Programming, Video editing.

Experience

Software Engineering Intern, HPCL ISC - Hyderabad **(Nov 2022 - Dec 2022)**

- Collaborated with three fellow interns to create an internal inventory management system for HPCL (ISC).
- Developed a user-friendly web application featuring a product catalog with search and order functionality, as well as secure user account management.
- Worked on the design and development of the product catalog management, login functionality, and user account management modules.
- **Technologies used:** HTML, CSS, JavaScript, Java Server Pages (JSP), PostgreSQL, and Apache Tomcat.

Projects

Real-time Facial Emotion Recognition Application

- Developed a command-line application that captures video streams and analyzes facial expressions in real-time.
- Implemented a convolutional neural network model to classify emotions based on detected facial expressions accurately.
- Utilized image processing techniques for pre-processing facial regions to optimize emotion classification.
- **Technologies used:** Python, OpenCV, TensorFlow.

Ollama PDF Chatbot

- Developed an interactive chatbot leveraging Ollama for efficient PDF document querying and content extraction, enhancing information retrieval.
- **Technologies used:** Python, Ollama, NLP

AI Assistant with Ollama

- Built an intelligent AI assistant utilizing Ollama to provide advanced conversational capabilities and automate various tasks, demonstrating proficiency in AI integration.
- **Technologies used:** Python, Ollama, AI, NLP

Stock Tracking Dashboard

- Developed a user-friendly web application for visualizing historical stock prices and tracking stock price movements.
- Implemented user profiles to enable users to track their interested stock symbols and monitor their performance.
- **Technologies used:** Python, Dash, Flask.

Personal Notes Management Application

- Developed a user-friendly web application using Flask for efficient personal note management.
- Included features such as user profiles, creation and deletion of notes, and controlled visibility options.
- **Technologies used:** Python, Flask, SQLite.