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

Skills

- **Programming Languages:** Python, Java, JavaScript, HTML, CSS, C.
- **Frameworks:** Flask, Tensorflow, Java Server Pages (JSP).
- **Databases:** MySQL, PostgreSQL.
- **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   **(Dec 2023 - Mar 2024)**

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

Stock Tracking Dashboard   **(Sept 2022 - Oct 2022)**

- 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 Voice Assistant   **(Aug 2022 - Sept 2022)**

- Designed and developed "Alexa", a voice-activated personal assistant capable of speech recognition and text-to-speech conversion.
- Integrated Python APIs to interact with external platforms such as WhatsApp and Wikipedia, enabling web search and information retrieval functionalities.
- The assistant responds to voice commands, including playing music from YouTube, fetching information from Wikipedia, and entertaining with jokes.
- **Technologies used:** Python, Google speech API, external APIs for integrations.

Personal Notes Management Application   **(Jul 2022 - Sept 2022)**

- 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.