Shashwat Saxena

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EDUCATION

Vellore Institute of Technology   Vellore, Tamil Nadu/ India
Integrated M.Tech in Software Engineering | Computer Science | CGPA : 9.45   June 2027

Programming languages : Java , C , C++, Reach.js , Node.js , Javascript , Python , Matlab
Technical Skills : Neural Networks , Data Structures , Object Oriented Programming , SQL , Operating systems ,
                              Computer Networks

EXPERIENCE

Project 1 : Facial Expression Recognition System Using Convolutional Neural Networks (CNN)

Project Description: Developed an advanced Facial Expression Recognition System leveraging Convolutional Neural Networks (CNNs) to accurately identify and classify human emotions from facial images, enhancing human-computer interaction through real-time emotion detection applicable in mental health monitoring, security, marketing, and entertainment.

Technologies Used:

- Python, TensorFlow, OpenCV, Scikit-learn, NumPy, Pandas

Achievements:

- Achieved high accuracy in classifying multiple facial expressions (e.g., happiness, sadness, anger, fear, and neutral).
- Demonstrated real-time emotion detection capability with minimal delay, suitable for interactive applications.

Impact: Showcased proficiency in deep learning and computer vision, solving complex problems and delivering practical solutions, highlighting experience in neural network architecture design, model training, and real-time application development.

Project 2 : E-commerce Platform with Personalized Recommendations

Project Description: Developed an e-commerce platform featuring a custom recommendation system to enhance user experience and drive sales. This project involved full-stack development, integrating both frontend and backend technologies, and implementing a personalized recommendation engine to suggest products based on user behavior and preferences using various filtering algorithms.

Technologies Used:

- Frontend: HTML, CSS, JavaScript, React.js
- Backend: Node.js, Express.js, MongoDB
- Recommendation System: Python, Scikit-learn

Achievements:

- Successfully created a fully functional e-commerce website with a seamless user experience.
- Developed a recommendation system that significantly improved user engagement and sales.
- Demonstrated proficiency in full-stack development and machine learning integration.

Impact: The project showcases skills in both frontend and backend development, as well as the ability to integrate machine learning algorithms into a practical application. It highlights experience in building user-centric features and managing end-to-end development, making it a valuable addition to any resume for roles in web development and software engineering.

LEADERSHIP EXPERIENCE

Core Committee Member, SEDS Chapter and Spartans Club:

- Organized events, managed logistics, and coordinated with team members for successful execution.
- Led initiatives to engage and grow the member base, resulting in increased participation.
- Collaborated with committee members to develop strategic plans and set goals.

Member, Linux Club:

- Organized workshops and seminars to promote open-source technologies.
- Mentored new members, providing guidance and support.
- Facilitated knowledge-sharing sessions, fostering a collaborative environment.

Team Captain, State Level Table Tennis Tournament:

- Led the team to victory in singles and doubles categories.
- Developed and executed training plans for peak performance.
- Motivated and mentored team members, fostering teamwork.

Project Leader, Academic Group Projects:

- Led multiple teams in completing complex software engineering projects.
- Delegated tasks effectively, ensuring each member contributed.
- Conducted regular meetings to track progress and provide feedback.

ADDITIONAL

- Enjoys competitive programming, refining problem-solving and algorithmic skills.
- Regular participation in chess tournaments online and offline.
- Competes in table tennis at local and state levels, showcasing agility and leadership. Successfully led the team to victories in doubles and singles events.
- Actively attending swimming sessions, improving endurance and technique.
- Accomplished several marathons. Engages in regular training to enhance speed and stamina.