SINGAMSETTY RAJASREE

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EDUCATION

BACHELOR OF TECHNOLOGY – Electronics and Communication Engineering **Graduation 2024**
Vellore Institute of Technology

Extracurricular Activities:

- I have done web designing and poster designing in IEEE CAS & IETE Chapters.

SKILLS

Programming Languages: Python, Java.
Full Stack Technologies: HTML, CSS, JavaScript, React.js, Next.js, Tailwind CSS, SQL, AWS (Amazon EC2), Node.js, REST API.
Other Tools/Technologies: TensorFlow, Pandas, NumPy, Adobe Illustrator, Arduino, Microsoft Excel, Figma.
Soft Skills: Problem Solving, Time management, Communication, Collaboration.

EXPERIENCE

Artificial Intelligence Intern - Smart Internz, Powered by Google Developers — May 2023 – Jul 2023

- Completed a GenAI-based project, collaborating with cross-functional teams.
- Utilized Git for version control and managed source code repositories.
- Designed and developed responsive websites compatible with various mobile devices. (*Source Code*)

UI/UX Designer & Frontend Developer Intern – InsideFpv — Oct 2022 – Dec 2022

- Developed new website features focusing on user-centered design solutions.
- Created user flows, wireframes, and prototypes for intuitive user interfaces.
- Advised on best practices for designing effective user experiences across devices.

Web Developer – Gtrix — Jun 2022 – Aug 2022

- Developed E-commerce, personal portfolio, and business profile websites.
- Collaborated with clients to create custom solutions meeting their business needs.
- Managed and optimized SQL databases for improved performance.

PROJECTS

Vision-Based Teleoperation System for Robotic Arm – (Capstone Project)

- Developed an innovative vision-based teleoperation system allowing a robotic arm to mimic human hand movements in real-time, captured via a webcam.
- Integrated computer vision techniques, kinematics calculations, and control signal generation to ensure precise manipulation of the robotic arm.
- Implemented robust hand pose tracking and gesture recognition using Media Pipe and OpenCV, alongside algorithms for mapping hand movements to corresponding robotic arm motions. **Technologies Used:** Python, OpenCV, Media Pipe, Arduino Uno, PCA9685 driver, Servo Motors, Qt Designer, NumPy. **(Source Code)**

Obstacle avoidance using Neural Networks and Q Learning Algorithm:

- Created a neural network-based project using reinforcement learning and Q-algorithm.
- Utilized Arduino IDE for robot training to independently navigate obstacles. **Technologies Used:** Arduino Ide, Q-algorithm.

Caption & Hashtags Generator and image enhancement:

- Built an innovative web application for image analysis, caption generation, hashtag suggestions, and photo editing. **Technologies Used:** Bootstrap, TensorFlow, JavaScript, HTML, FLASK. (Source Code)

Face Detection and Recognition for Automatic Attendance System:

- Developed a machine learning-based project using a cloudinary face processing API.
- Implemented a locally hosted facial recognition system.
  Technologies Used: AWS, MongoDB, TensorFlow, NodeJS, GraphQL and REST API.

Start-To-doing (Todo):

- Built a dynamic task management system with persistent updates and integrated **Kanban** for task organization.
- Ensured responsiveness for cross-device compatibility. **Technologies Used:** Next.js, React.js, Tailwind CSS. (Source Code)

ACHIEVEMENTS

Merit Certificate: Excellence in project execution, recognizing successful integration of web development and AI technologies. Certificate

Course Certifications - Certificate