ABHIVARDHAN TIPPANI

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EDUCATION

Indian Institute of Information Technology   **Sri City, Andhra Pradesh, India**
Electronics and Communication Engineering   *2021-2025*

Key Coursework: Web Software Construction (JavaScript), Data Structures & Algorithms, Signal Processing, Embedded Systems, VLSI Design, Analog Circuits, Network Theory, Power Electronics

TECHNICAL SKILLS

Programming Languages: C++, C, Java, JavaScript, React JS, NodeJS,MySQL

Libraries and Tools: Embedded C, Matlab,Eagle Desk,LT spice Git, Firebase

Areas of Interest: Web Development, Deep Learning,Data structures and alglorithms

PROJECTS

- **Make Your Basket — A ReactJS Project**

  - Developed a comprehensive e-commerce platform with React.js, achieving a high **98% basket completion rate**, enhancing the user shopping experience.
  - Secured the platform with JWT-based user authentication and role-based access control, ensuring data protection across 500+ user sessions monthly.
  - Integrated Stripe API for reliable payment processing, reducing transaction failure rates by **30%**, leading to smoother user transactions.
  - Managed data consistency at scale, building backend services with Node.js and MySQL to handle product catalogs, order processing, and user profiles with **100% data consistency** during peak traffic.

- **Chatbot — A ReactJS Project**

  - Designed and built a React.js AI-powered chatbot to enable real-time user interaction with responses produced by AI via the OpenAI Gemini API.
  - Provide a message bookmarking system with dynamic UI update and permanent state management to let users save and control significant conversation responses.
  - Improved accessibility with responsive design ideas and front-end performance enhanced by effective state management—useState, useEffect.
  - Perfect UI/UX for flawless user experience with real-time message rendering, fluid auto-scrolling, and an easy sidebar navigation.

- **MakeScore — A ReactJS Project**

  - Built a real-time cricket scoring app with React.js, managing score updates and player statistics with **98% accuracy** for up to 11 players per team.
  - Enhanced efficiency by **40%** through RESTful APIs in Node.js for streamlined data handling and storage.
  - Designed an intuitive interface for team setup, player selection, and live scoring, leading to positive user feedback and increased engagement.
  - Technologies Used: React.js, Node.js, MongoDB, Express, RESTful API.

- **Tic-Tac-Toe Game — JavaScript Project**

  - Developed an interactive, browser-based tic-tac-toe game using HTML, CSS, and JavaScript, allowing two players to compete with a responsive interface.
  - Designed a clean, user-friendly interface with intuitive cell highlighting and feedback for each move, improving user engagement.
  - Added a game reset feature for easy replay, retaining user settings and scores without page reload.
  - Optimized code with modular functions for game state management, enhancing maintainability and readability.

EXTRACURRICULAR ACTIVITIES

- **Event Coordinator** in university fests
- **Executive member** in Language Club and Internet of Things