

VEMA PREETHIKA

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EDUCATION

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| • Shri Vishnu Engineering College for Women
Bachelor of Technology in Information Technology
CGPA: 9.42/10.00 | Bhimavaram, India
2023 - 2027 |
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SKILLS

- **Languages:** C, Python, Java, HTML, CSS, JavaScript.
- **Frameworks and Libraries:** OpenCV, MediaPipe, Tkinter.
- **Tools:** VS Code.
- **Soft Skills:** Communication, Leadership, Teamwork, Time Management.
- **Course Work:** Data Structures, Object-Oriented Programming, Advanced Data Structures.

PROJECTS

Amazon Clone - A Web Application

[\(Repository Link\)](#)

Tech Stack: HTML, CSS

- Created a front-end replica of the Amazon website using HTML and CSS, focusing on responsive design and layout accuracy.
- Implemented various sections, including the homepage, product listings, and a navigation bar, enhancing the user experience.

Flappy Bird - A Game Development Application

[\(Repository Link\)](#)

Tech Stack: Java, Java Swing

- Designed and developed an interactive UI with real-time score tracking and dynamic obstacle generation using Java Swing, reduced load time by **15%**.
- Optimized game performance by efficiently managing object rendering and user inputs, ensuring a seamless gaming experience.

Virtual Mouse - Hand Gesture Control Application

[\(Repository Link\)](#)

Tech Stack: OpenCV, Python, MediaPipe

- Developed a virtual mouse control system using hand gestures captured through a webcam, increased gesture recognition accuracy by **20%**.
- Implemented hand detection and gesture recognition algorithms to simulate mouse movements, clicks, and scroll actions, ensured real-time response and accuracy through optimized image processing techniques.

ACHIEVEMENTS

- **Smart India Hackathon (SIH - 2024) :** Selected at the college level for solving real-world challenges.
- **NPTEL Certification:** Certified in **Programming, Data Structures and Algorithms. using Python**
- **Infosys Springboard:** Certified in **Basics Of Python, Programming using Java.**
- **HackerRank:** 5-star in Problem Solving, 4-star in Python, 3-star in Java, Certified in **Python (Basic) & Problem Solving (Basic).**
- **Myntra's Hacker-Ramp WeForShe:** Participated in Myntra's flagship Hackathon, solving real-world challenges in the e-commerce and fashion-tech industry.
- **Nation Building Case Study Competition:** Competed in a strategic case study challenge focused on innovative solutions for national development and policy improvement.

POSITIONS OF RESPONSIBILITY

Build Club Member

January 2025 - Present

Co-lead, Student Success Center

August 2024 - Present