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Bhadrak, Odisha, India



In my Sophomore year, dedicated and creative Computer Science student with a strong foundation in programming and a passion for web development, data analysis, and design. Proven ability to produce compelling content, from video productions to event promotion. Committed to continuous learning and contributing to innovative tech projects. Eager to leverage skills and passion for technology in a dynamic professional environment



Education

B.Tech in Computer Science spec (Health informatics)

Vellore Institute of Technology-Bhopal, Madhya Pradesh

♥ Oct'22-Jul'26

Skills

Functional Skills:

User-Centric Mindset

Cultural Fit

Research Oriented Development

Technical Skills:

Java

Frontend Development

Figma

Experience

GDSC VIT Bhopal

Design Core Member

VIT Bhopal

★ Dec'22-Jul'23

- -Winterfest Video Production: Produced a captivating promotional video for GDSC's Winterfest event, showcasing the various activities and attractions, which significantly contributed to increased attendance and engagement.
- -Winterfest Program Introduction: Designed and posted engaging social media content for GDSC's Winterfest to introduce and highlight the exciting lineup of programs and activities, generating buzz and anticipation among attendees.
- -ML TALKS Event Promotion: Created and shared a compelling social media post to drive registrations for the ML TALKS event during the college's Advitya festival, resulting in a higher turnout of enthusiastic participants.

Academic Projects

Diabetes Retinopathy

- -Leveraged EfficientNet B4, a state-of-the-art deep learning architecture, to achieve remarkable accuracy in diagnosing Diabetes Retinopathy, providing more reliable predictions.
- -Employed a robust 5-fold cross-validation technique to ensure model performance consistency and reliability across different data subsets, enhancing the project's credibility.
- -Utilized Principal Component Analysis (PCA) to extract essential information from multiple datasets and implemented feature fusion techniques to integrate these features into a unified model, resulting in a more comprehensive and accurate diagnostic tool. The model was deployed on both web and mobile applications, ensuring easy access for users.

HPC based Smart Windows

- -Conceptual Design: Developed a conceptual design for HPC-based smart windows that leverages the unique properties of Hydroxypropyl Cellulose (HPC) as a thermochromic material, allowing for efficient control of light transmission based on temperature changes.
- -Layered Structure: Designed a multi-layered structure for the smart windows, incorporating HPC as the thermotropic layer, transparent electrodes, and a heat control system to manage the threshold temperature (Ts) for optimal light modulation.
- -Incorporating Energy Efficiency: Focused on integrating Concentrated Photovoltaic (CPV) cells along the window edges to harness solar energy efficiently, contributing to the building's energy conservation goals, profit and sustainability.

