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Electrical and Electronics Engineering

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EDUCATION

Degree/Course	Institute /Board	CGPA/Percentage	Year
B.Tech. EEE	Visvesvaraya National Institute of Technology, Nagpur	7.31 (Current)	2027
CLASS XII	Tagore International School	89%	2022
CLASS X	St. Xavier's	87%	2020

PROJECTS

Room Chat Platform [Room-chat](#) [Live Project](#)

Built a dynamic discussion platform using Django framework, enabling users to create and participate in topic-based chat rooms. Implemented user authentication, real-time messaging, and activity tracking features.

- Developed full backend functionality using Django, including user authentication and database models.
- Designed responsive UI/UX with AI-assisted tools for modern frontend implementation.
- Implemented core features like room creation, topic filtering, and real-time messaging; deployed securely on PythonAnywhere.

CircuitVision [Circuit-Vision](#)

Developed a MATLAB-based application for classifying electrical circuit components using image processing and deep learning techniques (CNNs). Designed for ease of use and educational purposes in electronics and computer vision.

- Built a MATLAB App Designer GUI integrating a CNN for classifying circuit components from imported or webcam-captured images.
- Added preprocessing (resizing, binarization), CNN layer visualization, and live preview for real-time interaction.
- Trained the model on custom datasets with modular, well-documented code hosted on GitHub for scalability.

MentorMate [mentorMate](#)

I developed MentorMate, a cross-platform app for Android and iOS using Flutter and Firebase. The app provides campus maps, personalized schedules, club information and secure login, creating a holistic resource for students.

- Developed a cross-platform Flutter app with Firebase backend for user auth, real-time data, and secure login/registration.
- Integrated Google Maps for campus navigation and built personalized schedule features for students.
- Used provider for scalable state management and implemented caching for efficient data access.

TECHNICAL SKILLS

Languages: Python, C/C++, Dart (Flutter)

Developer Tools: Django, Flutter, Git, VSCode

Cloud/Databases: Firebase, SQLite, PythonAnywhere, GitHub

Coursework: Data structures and algorithms

Areas of Interest: Mobile development, Computer Architecture, System Design, Backend Development, Compiler Design, Electronics & Embedded systems

EXTRA CO-CURRICULAR

- Electronics and Robotics: Building side projects and exploring robotics concepts.

