Smit Patel

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EDUCATION

Government Engineering College, Bharuch **Sept 2022 – May 2026**
Bachelor of Engineering in Computer Science *CGPA of 7.37*

Sett R.J.J High,School,Valsad **July 2022**
GSEB Class 12th Board *Percentage:72*

PROJECTS

Portfolio Website

- Designed and developed a responsive personal portfolio website using **HTML, CSS, and JavaScript** to showcase skills, projects, and achievements in an organized and visually appealing manner.
- Implemented a **clean UI layout** with smooth navigation, interactive buttons, and responsive design principles to ensure accessibility across desktop and mobile devices.
- Incorporated **section-based structure** (Home, About, Skills, Projects, Contact) and smooth scrolling effects to enhance user experience.
- Focused on clean code structure and reusability, demonstrating practical knowledge of frontend fundamentals and attention to detail.
- **Techstack:** | *HTML, CSS, JavaScript*

Mini Projects

Calculator App
- Built a simple **web-based calculator** using HTML, CSS, and JavaScript capable of performing basic arithmetic operations.
- Focused on button styling, layout design, and event handling for real-time display updates.
- **Techstack**: | *HTML, CSS, JavaScript*

To-Do List App
- Developed an interactive **To-Do List web app** to add, mark, and delete tasks dynamically.
- Implemented local storage to preserve user data across sessions and improve usability.
- Demonstrated understanding of **DOM manipulation** and event handling.
- **Techstack:** | *HTML, CSS, JavaScript*

Household Waste Classification
- Developed deep learning models using **VGG16** for **household waste classification** into 12 classes including paper, plastic, metal, cardboard, clothes, and glass types.
- Achieved **94.17 % test accuracy** by fine-tuning VGG16, unfreezing from 'block5 conv1', applying reduced learning rate, and using early stopping.
- Preprocessed and cleaned **15000+** images by removing corrupt/blurry files, resizing to 224x224, and applying data augmentation and normalization for improved model generalization.
- Techstack: | *Python, Keras, NumPy, Scikit-learn, Matplotlib, OpenCV,VGG16*

ACHIEVEMENTS

- Qualified for national-level **IEEE Signal Image Processing** Competition, applying image processing techniques to real-world problems.
- Selected for **Smart India Hackathon 2024** for developing an AI-based Crop Pest and Disease Detection system using deep learning and computer vision.

TECHNICAL SKILLS

Frontend: HTML, CSS, JavaScript
Programming Languages: C/C++, Python, Java
Databases: MySQL
Tools: VS Code, GitHub, Google Colab, Jupyter Notebook