

KRISHANG TALSANIA

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EDUCATION

Pandit Deendayal Energy University

Gandhinagar, Gujarat

Electronics and Communication Engineering (*Semester 2*)

2024 - 2028

- CGPA: 8.35/10.00
- **Coursework:** C Programming, Python, Discrete Mathematics, Linear Algebra, CAD

EXPERIENCE

Intern - MyEquation

March 2025 - Present

Technical Content Curation under the domain of Embedded Systems and IoT

- Researched and authored technical content on mechanical, electrical, and electronics engineering topics according to client specifications.
- Developed visual aids including diagrams, flowcharts, and illustrations to enhance written technical content.
- Collaborated with subject matter experts to maintain technical accuracy and clarity in all deliverables.

PROJECTS

Local Semantic Search

April 2025

Python based AI search engine:

- Engineered a privacy-focused semantic search engine in **Python** using **Streamlit** for frontend, **Sentence Transformers** for NLP embeddings, and **ChromaDB** for vector database.
- Implemented meaning-based document search capabilities for PDF files that understand search intent beyond keyword matching.
- Fully local architecture ensuring complete data privacy by processing all information on the user's device.

Custom ROM Development

April 2024

EvolutionX ROM for 'spes':

- Successfully compiled and customized open-source custom ROM for Mi Note 11 (spes)
- Performed basic system optimizations to improve device performance.
- Tested ROM stability and identified areas for improvement.

TEAMWORK EXPERIENCE

Editorial Team - SOT, PDEU

February 2025 - Present

Content Editor

- Served as Content Editor for the official annual department magazine 'Sancharini 2025' under the guidance of Prof. Abhishek Kumar
- Collaborated with student editorial team to curate, edit, and refine content.

IEEE Computer Society - Student Branch

January 2025 - Present

Technical Team Member

- Designed and organized interactive workshops, also delivering hands-on technical sessions to enhance participant learning and skill development.

IEEE Signal Processing Society - Student Branch

September 2024 - Present

Content Team Member

- Coordinated event communications by creating pre-event promotions and post-event recaps, photography, and managing participant experience on-site.

TECHNICAL SKILLS

Languages: C, Python, Java, Bash Scripting, MATLAB, LaTeX

Technologies: RedHat Linux, Git and Github, Operating Systems, Mobile Development, Containerization, Arduino, ESP32, CAD