Madala Pranavsai

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EDUCATION

Maulana Azad National Institute of Technology — **Bhopal, India**

B-Tech, Electronics and Communication Engginering ; CGPA: 7.7 — **2023 - Present**

Narayana Junior College — **Vijayawada,India**

Board of Intermediate Education Andhra Pradesh; Percentage: 90.6% — **2021 - 2023**

Narayana E/M High School — **Vijayawada,India**

Board of Secondary Education Andhra Pradesh; Percentage: 99.5% — **2020-2021**

SKILLS SUMMARY

- **Languages**: C, C++, Python
- **Frameworks**: HTML, CSS, Pandas, Numpy, Scikit-Learn, Matplotlib,streamlit,librosa
- **Tools**: Excel, PowerPoint
- **Platforms**: Visual Studio Code, GitHub, Jupyter Notebook,
- **Soft Skills**: Communication Skills, Problem-solving, Teamwork & Collaboration, Time Management

PROJECTS

Design of Automatic Speaker Recognition (Partial System) using MFCC Feature Extraction in Python (2025)

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- Developed a Streamlit-based **MFCC Feature Extraction System** for speaker recognition, enabling interactive analysis of audio signals.
- Implemented core audio processing functionalities including **pre-emphasis, framing, Hamming windowing, and power spectrum computation**.
- Designed and integrated a **Mel filter bank** for converting power spectra into Mel-scale features, a crucial step for MFCC extraction.
- Enabled **customization and analysis of key MFCC parameters** such as frame size, overlap, number of Mel filters, and sampling rate, facilitating research into their impact on feature extraction.
- Utilized **librosa** for audio loading, signal manipulation (e.g., resampling, mono conversion), and visualization of waveforms, spectrograms, and MFCC heatmaps.
- Created an interactive user interface with Streamlit, allowing users to **upload WAV files and explore various research questions** related to MFCC feature extraction.

Personal Portfolio website using HTML and CSS

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- Designed and developed a responsive personal portfolio website using HTML and CSS with a modern dark theme.
- Integrated animated skill progress bars to visually represent proficiency in Python, C++, Machine Learning..
- Added resume download functionality and social media links (GitHub & LinkedIn) to enhance professional visibility.
- Implemented a contact form (Formspree-based) to enable direct communication from visitors or recruiters.
- Ensured cross-device compatibility and smooth user experience with clean, lightweight design and scroll navigation