Dhruv Maheshwari

B. Tech - Computer Science Engineering Student

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O Bengaluru, India

EDUCATION

B. Tech - Computer Science Engineering

til Aug 2023 ~ Oct 2027

PES University, Bengaluru

Distinction Award x3

ABOUT

I am a driven Computer Science Engineering student with a solid foundation in Python, C, and full-stack web development, alongside a strong interest in AI and machine learning. I am passionate about developing innovative solutions to real-world challenges and enjoy exploring new technologies. My hands-on experience spans both software development and 3D modeling, supported by industry recognized certifications. I am committed to continuous learning and bring a collaborative, analytical, and adaptable mindset, along with proficient communication skills to every project I undertake.

SKILLS

Programming Languages: Python, C, JavaScript

Web Development: MERN Stack (MongoDB, Express.js, React.js, Node.js), HTML+CSS

Artificial Intelligence / ML: HuggingFace Transformers, Models (OpenAl Whisper, Meta NLLB-200, Sentence-BERT)

Additional Tools and Libraries: NumPy, Pandas, PyTorch, Transformers, Sentence-Transformers, Langdetect, Jiwer, Librosa, Regex

PROJECTS

EchoLang -

Jul 2025

https://github.com/dhruvm-04/EchoLang

A real-time multilingual ASR translation and transcription system using OpenAl Whisper, Meta NLLB-200, and Sentence-BERT, integrating Python tools and libraries like PyTorch, SciPy, NumPy, Pandas, transformers, etc. for signal processing, data handling, and model evaluation. Achieved close to 55% improvement in Character Error Rate (CER) over baseline models in code-switched Indian language tasks.

MusiConvert - Cross Platform Playlist Converter

m Mar 2025

https://github.com/dhruvm-04/MusiConvert

A **Python** application enabling secure, cross-platform playlist conversion and sharing between Spotify and YouTube Music. Integrated **Spotify, YouTube, and Odesli APIs**. Features include **Wi-Fi Direct file transfer with end-to-end encryption, reliable data transfer, playlist import/export, automated recreation**, and a user-friendly interface for seamless music management across platforms.

EXPERIENCE

Intern - Al Application Development

iii Jun 2025 ∼ Jul 2025

xForm Solutions

Worked across domains including automatic speech recognition, machine translation, natural language processing, and audio signal processing while developing an end-to-end pipeline for multilingual (Hindi, Tamil, English) code-switched speech and text. My responsibilities included integrating models for speech-to-text transcription (OpenAl Whisper), translation (Meta NLLB-200), and intent classification per service category (Sentence-BERT), as well as implementing custom rule-based error correction and urgency detection logic. Focused on real-world multilingual data handling, dynamic preprocessing of audio signals, semantic matching of user queries, and systematic model evaluation using large-scale benchmarks, ensuring robust performance and usability in low-resource and challenging environments.

CERTIFICATIONS

EXTRA CURRICULARS

Google IT Automation with Python
IBM Fundamentals of AI
AWS Prompt Engineering Foundation
University of Helsinki Elements of AI
Simplifearn Data Science with Python

Head of Chassis Design and Fabrication

Team Vegavath Racing

Headed electric go-kart chassis development for **FMAE/FKDC** and **IKC** compliance using **Autodesk Fusion360** and **Blender**. Conducted workshops on **CAD design** and **internal combustion engine** maintenance for junior team members.

Under Secretary General - Head of Design MUNSoc PESUECC

Delegated for student-led Model United Nations club, organized an inter-college event as Under Secretary General – Head of Design. Participated in 5+ MUNs, winning awards including a certificate for Honorable Delegate.