MOURISH KUMAR V *Python Developer/ML - Engineer*

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Profile

Python Developer / Machine Learning Engineer with hands-on experience in **multilingual speech translation, dataset engineering, and model optimization**. Skilled in **Python, Hugging Face, PyTorch, and TensorRT**, with a strong foundation in **full-stack development**. Passionate about building **scalable AI solutions** and deploying them for real-world applications, including projects in the **defence sector**.

Professional Experience

06/2025 – Present
Bengaluru

ML Engineer – Multilingual Speech Translation Project
Assisto Technologies Pvt. Ltd (Consultant – Indian Navy, Defence Sector)

- Built an **end-to-end multilingual speech translation pipeline** covering raw audio segmentation, feature extraction, post-processing, and model training.

- Automated **dataset preparation** (CSV to Hugging Face) with **phonemization, POS tagging, and n-gram annotation** to enrich linguistic features.

- Fine-tuned a **speech-to-text translation model** (wavlm-base-bart-large) using Hugging Face **Seq2SeqTrainer**, improving accuracy measured by **BLEU scores**.

- Standardized multilingual datasets (Hindi, Gujarati, Thai, Korean, French, etc.) with robust error handling and schema consistency.

- Optimized inference by converting a **Qwen model into a TensorRT engine** with quantization for **faster, memory-efficient deployment**.

Key Skills: Hugging Face, Transformers, PyTorch, TensorRT, CUDA, Librosa, Datasets, Multilingual NLP

Technical Skills

Programming: Python, SQL, HTML5, CSS, Bootstrap

Machine Learning / AI: PyTorch, Hugging Face, Transformers, TensorRT, CUDA, Librosa, NLP.

Operating Systems: Windows, Linux (Ubuntu)

Projects

EMOTION BASED MUSIC RECOMMENDATION SYSTEM
MACHINE LEARNING DOMAIN
I developed an Emotion-Based Music Recommendation System, leveraging machine learning techniques to analyze user preferences and emotional cues. By integrating sentiment analysis and user feedback, the system delivers personalized music recommendations tailored to individual moods and preferences, enhancing user satisfaction and engagement in the music streaming experience.

Education

2024

Bachelor of Technology
SRM Institute of Science and Technology
CGPA- 8.13

2020

HSE
Little Oxford Matriculation Higher Secondary School

Certificates

Internship Certificate ⧉
Kareinfinity Technologies Pvt. Ltd

Full Stack Development ⧉
Greens Technologies

Languages

- English

- Tamil