MANASI PANDIT

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LinkedIn | GitHub | Kaggle | Leetcode | HuggingFace

SUMMARY

AI/ML enthusiast currently in my third year of B.Tech in AI & Data Science at VIT Pune, specializing in machine learning, NLP, and computer vision. Experienced in AI-driven solutions like speech-emotion recognition and recommendation systems, passionate about leveraging deep learning for real-world impact.

EDUCATION

Institution	Program	CGPA / %	Year
Vishwakarma Institute of Technology, Pune	B Tech – Artificial Intelligence and Data Science	8.4 / 10.0	2023 - 2026
Govt. Residential Women's polytechnic, Latur	Diploma – Computer Engineering	90.38 %	2020 - 2023
Shri Ram Vidyalaya, Renapur, Dist. Latur	SSC	94.6 %	2020

EXPERIENCE

Operand Technologies & IT Solutions LLP Latur, MH24
Industrial Trainee, July 2022 – August 2022
Worked on "Product Advertisement Management System" project and learned web development

PROJECTS

EmoVoice | Speech-Emotion-Recognition model

- Implemented a Speech-Emotion Recognition system using **LSTM Neural Networks**, achieving **87.0% accuracy** in classifying emotions from **audio files**.
- Utilized a dataset of 2800 audio files across **seven emotions**, integrating **pandas** for data manipulation, **keras and tensorflow** for model development, and **librosa** for audio processing.

Movie Recommendation System | Recommendations models using Advanced Filtering Techniques

- Developed a movie recommendation system using **collaborative filtering** (MovieLens dataset) and **content-based filtering** (TMDB), achieving **85% accurate** personalized recommendations.
- Implemented with Python using **Pandas**, **NumPy**, and **scikit-learn** for data processing and modeling, ensuring modular code structure, comprehensive documentation, and rigorous validation through unit testing and **GitHub Actions**.

CustomerClusters | Customer segmentation for a retail store

- Implemented customer segmentation using **K-means clustering** to identify distinct customer groups for targeted marketing.
- Applied **PCA for dimensionality reduction**, used the elbow method for **optimal clusters**, and visualized results for **business insights**.

Stress-De-Buster| AI-Powered Stress Detection

- Developed a **CNN-based model** to analyze facial expressions and detect stress levels in real-time, integrating physiological data from smartwatches.
- Implemented **stress-relief features** like calming music, games, memes, mindfulness exercises, and break reminders to enhance user well-being.

TECHNICAL SKILLS

- **Languages & Databases:** Python, R, SQL, C/C++, Java, JavaScript, MongoDB, MySQL, PostgreSQL
- **Machine Learning & AI:** TensorFlow, PyTorch, Keras, scikit-learn, YOLOv8, OpenCV, XGBoost, LSTM
- **Data Science & NLP:** Pandas, NumPy, Power BI, Hugging Face Transformers, Whisper, RAG, LLM fine-tuning
- **Development & Tools:** React, Express, Flask, Git/GitHub, Firebase

ACHIEVEMENTS, CERTIFICATIONS AND ACTIVITIES

- **Delta Bot Project**: Contributed to a **computer vision project** for precision weed detection, **sponsored by industry**.
- **Ingenious Event**: Managed the **Data Analytics and Predictions team**, ensuring project success and guiding team members.
- **Certified in Python and R** (Udemy), and **Fundamentals of Deep Learning** (NVIDIA), **Python Project for Data Engineering**, **Introduction to Data Engineering , Introduction to Relational Databases (RDBMS)** (IBM-Coursera)
- **Clubs and Positions :** Serving as **AIML Head** at ISA Student's Section VIT, Pune