HARSH KUMAR

ENGINEERING STUDENT

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SUMMARY

Enthusiastic and highly motivated engineering graduate with a strong passion for Artificial Intelligence and Machine Learning. Eager to apply theoretical knowledge to real-world problems and contribute to impactful, data-driven solutions. Skilled in Python, data preprocessing, machine learning algorithms, and model development using tools like Scikit-learn, TensorFlow, and Pandas. Actively building hands-on projects to deepen understanding of AI concepts such as supervised/unsupervised learning, NLP, and neural networks. Looking for opportunities to collaborate, learn, and grow while tackling challenging problems that drive innovation and real-world impact.

EDUCATION

Graphic Era Hill University, Dehradun
Curently pursuing B.tech in Computer Science and Engineering(Aug 2022-Jun 2026)

SKILLS

C
Python
C++
DSA
AI/ML

PROJECTS

Self-Learning Chatbot (Python, NLTK, NLP)
Personal Project | 2024

- Developed a self-learning chatbot using Python, integrating Natural Language Toolkit (NLTK) for natural language processing and intent classification.
- Implemented text preprocessing (tokenization, stemming, lemmatization), pattern recognition, and custom intent training modules.
- Designed a dynamic learning mechanism where the chatbot adapts based on user feedback and expanding input patterns.
- Used JSON-based knowledge storage and trained intent classification models with scikit-learn pipelines.
- Enhanced user experience with conversational context tracking and fallback handling.

Audiobook Generator using Python
Personal Project | 2025

- Developed a Python-based audiobook generator that converts text files or eBooks into speech using libraries like gTTS, pyttsx3, or pydub.
- Implemented file I/O to read user-provided text/PDF files and output audio in MP3/WAV formats.
- Enabled language and voice customization, speech rate control, and batch processing for multi-chapter support.
- Built a simple GUI (if applicable) for user input and file selection (e.g., using Tkinter or PyQt).
- Optimized audio quality with volume normalization and optional background music overlay.

ADDITIONAL INFORMATION

- **Languages:** English,Hindi.