

AASHRITH SHARMA

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Leetcode

EDUCATION

Chaitanya Bharathi Institute of Technology
B.E in Artificial Intelligence and Data Science [GPA: 8.59]

Hyderabad, India
July 2022 – Present

SKILLS

Programming Languages: Python, R, SQL

Frameworks and Libraries: Pytorch, torchvision, huggingface, CUDA, Numpy, Pandas, BeautifulSoup, Selenium, Matplotlib, Seaborn, Scikit-Learn, Streamlit, PowerBI, Excel, Flask, RAG, n8n

Technologies: MS Excel, Git, Github, Docker, MySQL, SQLite, MongoDB

EXPERIENCE

AI Research Associate
IIT Delhi

March 2025 - Present
India

- Fine tuned models and projects in Generative AI and NLP. Contributed to research papers focused on LLMs applications of OpenAI in real-world NLP tasks.

Data Science Intern
InfoTact

December 2024 - March 2025
India

- Deployed ML models using: pytorch, Scikit-learn, TensorFlow, and team collaboration workflows.

Summer Intern
Invest4edu India

May 2024 - August 2024
India

- Performed yearly analysis and researched stock market trends. Developed insights for financial planning and wealth management.

PROJECTS

Bilingual Real-Time TTS Server with LiveKit, FastAPI
GenAI Project

June 2025
Python

- Designed and implemented a bilingual real-time TTS server using LiveKit and FastAPI with WebSockets. The system integrates gTTS for speech generation and enables conversational GenAI workflows. It features a one-click CLI setup script for local deployment, VS Code compatibility for Automation of tasks and future extensibility to advanced TTS engines.

Image to Image Translation using cGAN (Pix2Pix)
Gen AI Project

March 2025
Python

- Built cGAN for image-to-image translation using Pix2Pix. Trained on CMP Facade dataset to map architectural labels to realistic building facades. Implemented in PyTorch using torchvision and CUDA for GPU acceleration. Demonstrated capabilities in translating edge maps into photorealistic images with adversarial and L1 losses.

Multilingual Language Conversion Using BLOOMZ and Mistral
Gen AI Project

January 2025
Python

- Developed a translator between English and 22 Indian languages using BLOOMZ-7B1 and Mistral 7B. Applied LoRA-based fine-tuning, BLEU/chrF evaluation, and prompt engineering.

Speech Detection System
AI, Physics, Data Science Project

December 2024
Python

- Engineered real-time speech recognition and emotion detection system using acoustic analysis, spectrograms, and filtering with multilingual support for virtual assistants.

Customer Segmentation
ML Project

October 2024
Python

- Built unsupervised ML pipelines using K-means and Hierarchical Clustering to segment customers by behavior and visualize clusters with Seaborn.

World Cup 2023 Data Analysis

EDA Project

January 2024

Python

- Analyzed player and team performance across the tournament using 3 datasets. Created visual dashboards using Pandas and Seaborn.

ACHIEVEMENTS

- ML Student @ Amazon ML Summer School - 2025
- Team Lead at Infotact Data Science Internship
- Junior Coordinator at Toastmasters - CBIT
- Represented in 12+ Model UNs, winning over 85
- Head of Acting Dept., Chaaya CBIT (Film Club)
- Secretariat, CBIT MUN 2023-24

LEARNING/CERTIFICATIONS

- Data Science Foundation @ Infosys Springboard - April 2024
- AI Associate Foundation @ Salesforce - March 2025
- ML Student @ Amazon ML Summer School - 2025