

ANSHUMAN

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Education

Manipal Institute of Technology

Bachelor of Technology - Computer Science; CGPA: 8.78

2022 – 2026

Manipal, Karnataka

Precidency Global School

Class XII; CGPA: 9.62

2020 – 2022

Patna, Bihar

Relevant Coursework

- Data Structures
- Object-Oriented-Programming
- Algorithms Analysis
- Database Management
- Digital Design
- Embedded Systems
- Operating Systems
- Computer Architecture
- Software Engineering

Experience

Undergraduate NLP Research Intern

June 2024 – July 2024

MIT, Manipal

Karnataka

- Created a model to analyze and visualize the fractal nature of lyrical verses and generate lyrics using advanced NLP techniques and transformer models
- Applied word embeddings (e.g., **Word2Vec**, **Doc2Vec**, **BERT**) and developed/fine-tuned transformer models (e.g., **GPT-3**, **Hugging Face Transformers**) for lyrics generation, focusing on specific artists.
- Successfully visualized complex patterns and structures within lyrical data, highlighting their fractal nature using Python libraries such as **NLTK**, **Matplotlib**, **Plotly**, and **Hugging Face Transformers**

Data Analyst Intern

December 2024 – January 2025

Alethe Labs

Gurugram, Haryana

- Developed a **Corrosion Condition State Classification** model using **ResUnet with multihead attention**, accurately segmenting image pixels into Severe corrosion, Bad, Fair, and Background categories.
- Implemented unsupervised learning models to detect fraudulent bank transactions, enhancing anomaly detection capabilities.

Projects

Art Generation with Neural Style Transfer Model |

- Developed a Deep Learning Model using **NST** to generate aesthetically pleasing and contextually significant images in the style of various Impressionism movement artists.
- Used experience with **convolutional neural networks(CNNs)**, 19-layer VGG network, pre-trained on the ImageNet database, to recognize and apply low-level and high-level features in the style transfer process.

Image Processing Application | Java, CSS, JavaFX

- Developed an image processing application for various image filters, Added functionality to display histograms for image analysis, Integrated image compression techniques to reduce file sizes.
- Utilized Object-oriented programming practices such as inheritance for filters, JavaFX and CSS styling to create an attractive GUI for user to process and edit images etc.

Technical Skills

Languages: Python, Java, C, HTML-5, CSS-3, JavaScript, SQL

Technologies/Frameworks:Git, GitHub, WordPress, JavaFX

Leadership / Extracurricular

IAESTE Manipal (International Association for the Exchange of Students for Technical Experience)

LC member

- Served as a team member, developing strong leadership qualities and honing skills in teamwork and communication.
- Organised Namaste Manipal'23, a flagship event spanning a week with various activities and events, welcoming interns from all over the world.

Revels MIT Sponsorship Team (Cultural Fest of MIT)

- Contacted potential sponsors, created sponsorship packages, and negotiated terms for mutually beneficial partnerships by effectively pitching ideas, negotiation and communication
- Secured Sponsorship from Lifestyle, provided clothing and accessories, vouchers and gift cards for Fashion Event