

ADITYA KUMAR

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Education

Netaji Subhas University of Technology
B.Tech. in Computer Science with Artificial Intelligence
- **CGPA : 7.5/10**

May 2021 - May 2025
New Delhi, India

Chinmaya Vidyalaya, Bokaro Steel City
CBSE Class XII - 97.00%
CBSE Class X - 93.20%

2020
2018

Projects

Animate-Prompt | *Generative AI* 🤖

- **Generates a short animated** video with background music based on the prompt given by the user.
- Generated images and videos with **Anime-mix** and **Stable Video Diffusion** models, accompanied by custom music from **MusicGen**.
- Evaluated for quality through **user feedback** and achieved a high **CLIP score of 36.9583**.

Home-Price-Prediction | *HTML, CSS, JS, SKlearn, Numpy, Pandas, Python flask* 🤖

- A comprehensive real estate price prediction project, using **sklearn** for model development and **linear regression** on Bangalore home prices dataset from **Kaggle**.
- Implemented a **Python Flask** server to deploy the model for HTTP requests (Area, BHK, number of Bathroom and location as parameter) and designed a frontend with **HTML, CSS**, and **JavaScript** to enable user input for predicted price retrieval from the pickle file of model.
- Covered essential data science concepts including data cleaning, outlier detection, **feature engineering**, and **hyperparameter tuning** using **gridsearchcv** and **k-fold cross-validation**.

Real-Time-Violence-Detection | *OpenCV, TensorFlow* 🤖

- Developed a real-time violence detection system using **computer vision**, leveraging **MobileNet V2** for efficient detection.
- Implemented real-time processing to identify and capture **faces of individuals involved in violent activities** using **OpenCV** and make a alert system.
- Achieved high accuracy through training on a diverse dataset of violent and non-violent actions from Kaggle.

Skills

- Language - **C++, Python, Java**, HTML, CSS, JavaScript
- Core Competencies - **DSA, Machine Learning, Deep Learning, Computer Vision, OOPs**, Compiler Design, Computer Organization, AI, DBMS, OS
- Frameworks/ Tools - **Numpy, Pandas, Tensorflow, Scikit-learn, OpenCV, Seaborn, MySQL** Flask, AWS
- Version control - **Git, GitHub**
- Development Tools - **VS Code, Colab Notebook, Jupyter Notebook**

Achievements

- **First runner-up** in a **Research Hackathon (Astronomy)**, INVICTUS, hosted by DTU
- Secured a top 5 position out of 200+ teams at **Hack-Bvicam 2023**.
- Secured **All India Rank of 6346** in **Joint Entrance Examination (JEE Advanced 2021)**.
- Secured **All India Rank of 4768** in **Joint Entrance Examination (JEE Main 2021)**.
- Secured **District rank of 8th** and **State rank of 25th** with **97%** in CBSE Class 12 exams (2020).

Position of Responsibility

- Team-Head, Logistics** | *Moksha-Innovision, The Annual Cultural and Technical Fest of NSUT*
 - Headed a **team of 10 members** to **successfully organize** and **execute multiple events** over a 3-day fest.
- Operations** | *Moksha-Innovision, The Annual Cultural and Technical Fest of NSUT*
 - Secured multiple stall deals and **sponsorships** for the annual fest while effectively managing them.