MAJJIGA DEEPAK SAI

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech	Electronic Engineering IIT (BHU), Varanasi	8.17	2025
BIEAP (XII)	SRI CHAITANYA CO-EDN.JR.COLLEGE,GUDAVALLI	95.000	2021
BSEAP (X)	SRI CHAITANYA HIGH SCHOOL,PUNADIPADU	93.000	2019

SKILLS

- **Programming Skills** : C++,Python,C,JavaScript.
- **Frameworks**:Pytorch,TensorFlow,Numpy,Pandas,ROS,GitHub.
- **Area of Interests** : Data Structure and Algorithms,Computer Vision,Data Science.

PROJECTS

IMAGE QUALITY ENHANCEMENT : SRGAN   MAR'23

Exposure:SRGAN,Pytorch,OpenCV.

-Developed a deep learning model using the SRGAN architecture, which leveraged a **Perceptual Loss** function in addition to traditional adversarial and content loss functions.
-Preprocessed and curated a dataset of low and high-resolution image pairs, ensuring data quality for model training.
-Fine-tuned model hyperparameters through iterative experimentation to achieve optimal image enhancement results with the Perceptual Loss.

ESTIMATION OF DELIVERY TIME   MAR-APR'23

Exposure:CatBoost,Scikit-Learn,Pandas,Numpy.

- Cleaned the Dataset using various techniques in**Numpy,Pandas**.Data was highly correlated hence down-sampled majority class data.
- Trained data on various models like **CatBooost,XGBoost,Randon Forest**.CatBoost has performed well over other models.

Autonomous Path Planning Bot   Jan'23

Exposure:ROS,OpenCV.

- Created a Real time bot using NodeMCU and programmed.
- Used the aerial Camera feed in real time and applied **image Processing** Techniques to determine the position in the maze.
- Implemented **A*-Algorithm** on the real time bot to traverse through the maze in shortest time for reaching Goals.

POSITION OF RESPONSIBILITY

- **Robotics Conclave Event Executive** in Technex - Annual Technical fest of IIT-BHU Varanasi.
- **Marketing CO-Coordinator** of EES'23-an Electronics Engineerinf Society of IIT-BHU Varanasi.
- **MENTOR** for VISION,A Robotics Event for Freshers conducted by**Robotics Club,IIT Varanasi**.

HONOURS AND ACHIEVEMENTS

- Secured **2nd position** in Cassandra,a Data Science event under UDYAM'23,IIT Varanasi.
- Secured **3rd position** in HardWired Event,an Event based on hardware implementation of robot conducted by Robotics Club,IIT Varanasi.
- **STATE RANK 486** in TS EAMCET 2021

EXTRA-CURRICULAR ACTIVITIES

- An active member of **Robotics Club,IIT BHU Varanasi**.
- An Active member of **Society of Autonomous and Engineering**.
- Participated in **DEVBITS**,a Web-Dev event under UDYAM'23.

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