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Pedapati Satya Sai Amarsh

Academic Details

Year	Degree	Institute	CGPA/Marks(%)
2023	B.Tech Artificial Intelligence	Indian Institute of Technology Hyderabad	8.73
2019	XII (Telangana State Board Of Intermediate Education)	Sri Chaitanya Narayana Junior College	97.5%
2017	X (Board Of Secondary Education , Telangana State)	Sri Chaitanya Techno School	9.8

Scholastic Achievements

- Achieved **AIR 654** in **JEE-Advanced** 2019 examination
- Achieved **AIR 531** in **JEE-Mains** 2019 examination
- Achieved **AIR 157** in **KVPY** 2018 examination
- Awarded **KVPY Fellowship Award** under SX Stream in 2018 (IISc Bangalore)
- Was **selected** for Multiple high ranked colleges like **IISc Bangalore, BITS Pilani** and **IIIT Hyderabad** for the Computer Science branch
- **National Top 1** Percentile in **NSEA , NSEP** and **NSEC** in 2019
- Got **Selected** for **INChO** - 2019
- **National Top 1** Percentile in **NSEJS** -2017

Skills

- **Languages** - C, C++, Python, Java, JavaScript, SQL, Assembly Language (basics)
- **Others** - HTML, Solid Edge
- **Frameworks** - Pygame, PyTorch
- **Operating Systems** - Windows, Linux

Relevant Courses

- Statistics and Statistical Inference
- Foundations of Machine Learning and Deep Learning
- Linear Algebra and Convex Optimization
- Probability And Random Variable
- Discrete Structures
- Database Management Systems (DBMS)
- Operating Systems and Computer Architecture
- Introduction to Programming
- Data Structures and Algorithms

Projects

- **Intern** at **Linoy Technologies,** using CMake and Google Test
- Doing a project on **implementing Natural Language Processing (NLP)** for **4baseCare Diagnostic Center,** which uses **sentiment analysis** on comments, flagging them to be inappropriate sending them to the moderator
- Did multiple projects in **Deep Learning** which include object detection using OpenCV, Face detection, Canny edge Detection, image to text conversion using PyTorch
- Developed an **IMDB Database using PostgreSQL,** created an ER Diagram based on the IMDB data set and wrote SQL queries to get selected information from the IMDB data set
- Created an **ML model** which classifies whether someone should rent a bike or not, based on features like weather, time, bike name etc which achieved a **93.89% test accuracy on Kaggle**
- **Anti Accident Device using Piezoelectric material** in case of sharp turns, in which the change in pressure change is used to detect the oncoming traffic on the other side of the sharp turn, and can also store charge generated by the piezoelectric material which can be used to power the traffic vehicle indicator
- **Assembled a Drone,** calibrated the gyroscope, accelerometer and added a GPS including commands to make it automated and fly through a fixed path without any manual support

Extracurricular

- Part of IITH Basketball team under NSO
- Male model for "The Katha", an Online Boutique
- Hobbies: Origami, Guitar, Calisthenics, Pencil sketching and portraits
- Squash and Chess
- Can solve more than 7 different types of cubes, ex: 3x3, 4x4, 5x5, Gear Cube Extreme