

AYUSH GUPTA

ACADEMIC PROFILE

Degree/Certificate	Institution						Percentage/CGPA	Year	
IDD (Power Electronics)	Electrical Engineering IIT (BHU), Varanasi						8.65	2022	
Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Sem VII	Sem VIII	Sem IX	Sem X
7.88	8.64	9.60	8.62	7.90	9.10	-	-	-	-
UP BOARD (XII)			CHRISTIAN INTER COLLEGE JHANSI				81.60	2017	
CBSE (X)			08723-JAWAHAR NAVODAYA VIDYALAYA BARUASAGAR JHANSI UP				89.30	2015	

- All India Rank **3544** in **JEE (Advanced) 2017**

SKILLS

Languages C, C++, Python

Interests Computer Programming, Data Structures and Algorithms, Deep Learning.

PROJECTS

ELECTRICITY THEFT DETECTION USING MACHINE LEARNING ALGORITHMS

Detection of anomalous electricity consumption from given smart meter readings in the data set

- Worked on labeled electricity consumption dataset from State grid corporation of China comprising of 1035 days data and used dimensionality reduction technique, clustering, and supervised machine learning algorithm to train a model that predicts data based on theft/non-theft.
- Worked on Irish smart meter energy Dataset, an unlabeled dataset comprising of hourly Smart meter readings. Used the K-means algorithm and bogus data generation to further using this data to train a model.

Exposure: Machine Learning Algorithms

Real-time Emotion Recognition From Facial Expressions

Designed a model that can recognize the facial expression with high accuracy

- Worked on data augmentation and feature extraction
- Worked on the classification of seven types of emotions.
- Applied Deep CNN architecture to achieve high accuracy.
- Model shows high accuracy towards Happy, Surprised, Neutral, and Angry expressions.

E-voting System

Designed a e-voting system using public-key encryption techniques

- It is a system in which only an authorized user can cast his vote online securely and easily, only once.
- Worked on the user's privacy and user's authenticity.
- Worked on the user-friendliness.
- Worked on different public-key encryption techniques such as RSA, Blind Signatures.

PIXELATE

A fully autonomous robot that can do various tasks like as: picking , dropping, and can go from one point to another using shortest path

- Made a fully autonomous robot than can do various tasks with the help of camera feeding.
 - Applied various image processing techniques.
 - Designed an efficient algorithm that can find the shortest path between two-position (regions).
- Exposure: Dijkstra 'Shortest Path Algorithm, Image Processing.

POSITION OF RESPONSIBILITY

- Organized **Cryptex-Event**, a cryptography-based event, under the Department of Electrical Engineering.

EXTRA-CURRICULAR ACTIVITIES

CHESS

- Won second prize in **District level Junior CHESS championship(Jhansi(U.P.) District)** organized by Senior Railway Institute.

Robotics

- Participated in **Pixelate** in **Technex'17** and built a robot that was fully autonomous using ARDUINO.
- Mentorship in **Robotron'18**.

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