

# Utpal Gupta

Pre-Final Year(B.Tech)

Computer Science & Engineering

Indian Institute of Technology (IIT) Jodhpur

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## Education

### IIT JODHPUR

B.TECH. IN COMPUTER SCIENCE

2018-2022(EXPECTED) | Jodhpur, India

CGPA : 6.73/10(till 3rd semester)

### RAMAKRISHNA SCHOOL

2017-2018 | GWALIOR

HIGHER SECONDARY(CBSE)

Percentage: 92.4%

### JAWAHAR NAVODAYA VIDHYALAYA

2015-2016 | TIKAMGARH

SECONDARY(CBSE)

CGPA: 10/10

## Skills

### OS

GNU/Linux, Windows

### LANGUAGES

Proficient(10000 LOC):- C/C++

Intermediate(1000 LOC):-Python,HTML

Familiar(<300 LOC):MATLAB,Solidity,CSS

### MACHINE LEARNING TOOLS

Tensorflow,Keras,Scikit,OpenCV

### OTHERS:

Git,Blockchain,Web Scraping,

K-Means Clustering,LaTeX

Public Speaking,Photoshop

## Coursework

### UNDERGRADUATE COURSES

Data Structures

Software Engineering\*

Object Oriented Analysis Design

Computer Organization and Architecture\*

Discrete Mathematics

Theory of Computation\*

Probability and Statistics\*,Complex Analysis

### ADDITIONAL COURSES

Machine Learning\*

Blockchain Specialization\*

Introduction to Tensorflow,Machine

Learning and deep learning

ongoing courses are marked \*

## Technical Projects

### TIHASH | TWITTER'S FUTURE TRENDING HASHTAG PREDICTOR

FEB 2020-PRESENT | B.Tech Project | Guide: Dr. Suman Kundu | [github->](#)

- Developed an API for predicting twitter's future trending hashtags
- Possible Hashtags were generated by Scraping keywords from articles and various online new platform and then clustering them by using k-means clustering and other frequency-based clustering Algorithms
- **Technologies and tools:-** Python,BeautifulSoup,Pandas, Numpy, Scipy,NLTK,k-means clustering,WordCloud

### AUTOPARKER | PARKING MANAGEMENT SYSTEM FOR IIT JODHPUR

AUG 2019-NOV 2019 | Course Project | Guide: Dr. Anand Mishra | [github->](#)

- Developed an Management System in C++ using Object Oriented Programming concepts
- Developed a backend to maintain a ledger of vehicles number,size,parking lot and automatic bill calculation and bill generation
- Used Huffman encoding for the confidentiality of admin password
- **Technologies and tools:-** C++,conio.h,Huffman Encoding

### UNCANNY | IMAGE CLASSIFICATION OF EDGE DETECTED IMAGES

AUG 2019-NOV 2019 | Course Project | Guide: Dr.Rajlaxmi Chouhan | [github->](#)

- Performed Image Classification on Edge Detected images using Canny Edge Detection to compare the accuracy with normal images
- Trained a CNN model to classify edge detected and normal images of different objects using Keras
- Accuracy of the model achieved was 83.2% for Edge detected and 85% for normal
- **Technologies and tools:-** Tensorflow,Keras,numpy,CNN,Canny Edge Detection

### MODULE TESTER | UNIT TESTING OF PENSIONAR'S PORTAL OF IIT JODHPUR

MAR 2020-MAY 2020 | Course Project | Guide: Dr.Suman Kundu | [github->](#)

- Made a Full Graph Coverage Unit Testing Program using Google test framework
- **Technologies and tools:-** Google test,CMake,C++

## Achievements/Awards

- Competed with **10,43,000** students in JEE 2018 to secure a rank of **2874**
- Represented **IIT jodhpur** in **Dramatics** in **Inter-IIT Cultural MEET** in 2018 and 2019. Got 4th rank in theatre among 21 teams.

## Positions of Responsibility

### STUDENT GUIDE | COUNSELLING SERVICES|AUG 2019-PRESENT

- Mentored freshmen students as a Student Guide for their smooth transitioning into college/hostel life.

### VICE-CAPTAIN | DRAMA CLUB|AUG 2019-MAY 2020

- Led dramatics team in Inter-IIT 2019