

# Utpal Gupta

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

MAY-2022(EXPECTED) |Jodhpur,India

CGPA : 6.95/10(till 6th semester)

### RAMAKRISHNA SCHOOL

2017-2018 |GWALIOR

HIGHER SECONDARY(CBSE)

Percentage: 92.4%

### JAWAHAR NAVODAYA VIDHYALAYA

2015-2016 |TIKAMGARH

SECONDARY(CBSE)

CGPA: 10/10

## Skills

### LANGUAGES

Proficient(5000 LOC):

C/C++•Python

Intermediate(1000 LOC):

HTML•CSS•Javascript

Familiar(<300 LOC):

Solidity•Matlab

Frameworks:

ReactJS•VueJS•NodeJS•Django•Socket.io

### MACHINE LEARNING TOOLS

Tensorflow•Keras•Scikit•OpenCV•

Pandas•NLTK•Gensim

### OTHERS

Git• Public Speaking•MySQL•Software

testing•Redis

### OS

GNU/Linux• Windows

## Coursework

### UNDERGRADUATE COURSES

Data Structures and Algorithm

Object Oriented Analysis Design

Software Engineering

Database Management System

Computer Networks

Operating Systems

Machine Learning

Computer Organization and Architecture

Theory of Computation

Probability and Statistics

## Technical Projects

### MEETBOARD |AN INTERACTIVE WHITEBOARD FOR GOOGLE MEET

DEC 2020-FEB 2021 | Guide: Dr. Ravi Bhandari |Extension->|Github->

- In-page interactive whiteboard for real-time video conferences on google meet
- Developed a cross-platform application along-with a web-extension
- Used Redis to keep track to every stroke
- Draggable modal with a whiteboard mounted on it
- **Technologies and tools:-** Vue•Electron•HTML•CSS•Socketio•NodeJS•Redis•Browser Extension

### METROMAP |AN NLP BASED BOOK SUMMARIZER

FEB 2021-JUNE 2021 |B.Tech Project| Guide: Dr. Chiranjoy Chattopadhyay

- Developed an NLP program for Automatic Modeling and Recommendation of Topics in Online Pedagogy using Metro Maps
- Made a mini dataset of E-books in XML format
- Created an algorithm to convert chapter titles into vectors and create a metro map using clustering
- **Technologies and tools:-** Python•Gensim•ElementTree•K-means•PyLucene•Word2Vec•Heuristics

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

FEB 2020-JULY 2020 |B.Tech Project| Guide: Dr. Suman Kundu |github->

- Developed an API for predicting twitter's future trending hashtags
- Meta keywords in online news platforms were scraped
- Created an algorithm for accurate prediction
- **Technologies and tools:-** Python•BeautifulSoup•Pandas•k-means clustering•WordCloud

### AUTOPARKER |PARKING MANAGEMENT SYSTEM FOR IIT JODHPUR

AUG 2019-NOV 2019 |Course Project| Guide: Dr. Anand Mishra |github->

- Developed a management system in C++ using Object Oriented Programming concepts
- Developed a backend to maintain a ledger of vehicle's number,size,parking lot,automatic bill calculation and bill generation
- **Technologies and tools:-** C++•conio.h• Huffman Encoding

## Achievements/Awards

- Competed against **10,43,000** students in JEE-2018 to secure a rank of **2874**
- Led the team of three in a hackathon by flipkart and secured a rank in top 1400 in 83,000 applicants, cleared round 2
- Represented IIT jodhpur in **Dramatics** in **Inter-IIT Cultural Meet** in 2018 and 2019, team was ranked 4th in theatre competition among 21 teams

## Positions of Responsibility

### STUDENT GUIDE |COUNSELLING SERVICES|AUG 2019-SEPT 2020

- Organized a 7 day long **Orientation Programme** for the new batch of students(-2023).Worked with **39 Student Guides** and mentored **10 first year students** .

### SECRETARY |DRAMATICS SOCIETY|AUG 2019-MAY 2021

- Led **dramatics** team in Inter-IIT 2019