

Utpal Gupta

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Education

IIT JODHPUR

B.TECH. IN COMPUTER SCIENCE
MAY-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

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

- Organized **Orientation Programme** for the new batch of students(-2023)that extended for 7 days.Worked with **39 Student Guides** and mentored **10 counselee students** .

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

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