

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

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

OS

GNU/Linux, Windows

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 news platforms and then clustering them by using k-means clustering and other frequency-based clustering algorithms
- **Technologies and tools:-** Python, BeautifulSoup, Pandas, Scipy, 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 and automatic bill calculation and bill generation
- Used Huffman encoding for confidentiality of admin's 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 and compared accuracy in both cases i.e. normal and edge detected 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 images
- **Technologies and tools:-** Tensorflow, Keras, CNN, Canny Edge Detection

MODULE TESTER | UNIT TESTING OF PENSIONER'S PORTAL OF IIT JODHPUR

MAR 2020-MAY 2020 |Course Project| Guide: Dr.Suman Kundu |github->

- Designed a Full Graph Coverage unit testing program using Google test framework
- **Technologies and tools:-** Google test, CMake, C++

Achievements/Awards

- Competed against **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,team was ranked 4th in theatre competition among 21 teams

Positions of Responsibility

STUDENT GUIDE | COUNSELLING SERVICES|AUG 2019-PRESENT

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

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

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