Utpal Gupta

Pre-Final Year(B.Tech)
Computer Science & Engineering
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Education

IIT JODHPUR
B.TECH. IN COMPUTER SCIENCE
May-2022(expected) |Jodhpur,India
CGPA : 6.8/10(till 4th 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++, Python
Intermediate(1000 LOC)-JavaScript,HTML
Familiar(<300 LOC):solidity,CSS,matlab

MACHINE LEARNING TOOLS
Tensorflow, Keras, Scikit, OpenCV

OTHERS:
Git, Public Speaking, Photoshop,MySQL,
Software testing, ReactJs

OS
GNU/Linux, Windows

Coursework

UNDERGRADUATE COURSES
Data Structures
Object Oriented Analysis Design
Software Engineering
Computer Organization and Architecture
Discrete Mathematics
Theory of Computation
Probability and Statistics,
Complex Analysis
Database Management System
ADDITIONAL COURSES

Machine Learning
Android App-Development
Specialization*

ongoing courses are marked *

Technical Projects

TWIHASH |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
- 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, 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
- **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 and original 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

SCRABBLEAI |ARTIFICIALLY INTELLIGENT SCRABBLE PLAYER
Sept 2020-Nov 2020 |**Course Project| Guide: Dr. Yashaswi Verma**

- program that lets you play Scrabble against a computer opponent
- **Technologies and tools:-** Python,PyGame, AI algorithms,Heuristics

MODULE TESTER |UNIT TESTING OF PENSIONER'S PORTAL OF IIT JODHPUR
Mar 2020-May 2020 |**Course Project| Guide: Dr. Suman Kundu** |github->

- Wrote a Full Graph Coverage unit testing program using Google test

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 Programme** 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