Utkarsh Singh

Electrical Engineering at IIT Jodhpur
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EDUCATION

IIT JODHPUR
B.Tech in Electrical Engineering
July 2019-2023
cum.GPA: 7.91/10 overall

CENTRAL ACADEMY BASTI
Class 12| CBSE
May 2018| Basti,UP
Percentage 91

CENTRAL ACADEMY BASTI
Class 10| CBSE
10 CGPA

LINKS

Github:// **UtkarshSingh13**
Linkedin:// **Utkarsh-Singh**
Codeforces:// **UtkarshSingh19**
CodeChef:// **Utkarshsingh19**
GFG Practice:// **SinghUtkarsh778**

SKILLS

PROGRAMMING:
• C • C++ • Python • Java
• JavaScript • Matlab • SQL
DEVELOPMENT:
• HTML • CSS • JavaScript
• BootStrap• React • Dash Plotly
OTHER SKILLS
•Machine Learning
•Deep Learning
•Tensorflow
•PyTorch
•Data Base Management System
•Operating Systems
• Object Oriented Programming
• Computer Networks
•Git and Tools

COURSEWORK

Data Structure And Algorithms
Machine Learning and PyTorch
Introduction To Programming with Python
Data Communication Networks
Probability, Statistics and Stochastic process

EXPERIENCE

BRIGOSHA TECHNOLOGIES Machine Learning Research Engineer
Sep 2023 - Present
- Technologies: **Python, Pytorch, OpenCV, Tensorflow, AWS, Streamlit**
- Working on ML models for end-to-end PDF content extraction.
- Developed a document layout analysis model based on Detectron 2 for test paper layout analysis, and segmenting content into different classes.
- Working on model to convert mathematical content into latex to outperform OCR models.

SPEEDLABS | software developer intern
May 2022 - July 2022
- Technologies: **Python, Dash Plotly, HTML, CSS, Azure**
- Designed and Developed two Web apps in Dash Plotly to add features to existing website.
- Streamlined course organization, positively affecting thousands of students learning experiences

PROJECTS

HAND-DRAWN SKETCH RECOGNITION | Course Project
Apr 2021 – May 2021 | Open Sourced: **Github** | Deployment: **Web**
- Developed a website to predict the classes of Hand-drawn sketches using an efficient Machine Learning pipeline.
- Deployed the best model on a Heroku server. Created a User Interface in React.
- Tech Stack: **Python, Sklearn, Keras, HTML, CSS, JavaScript, React, Flask, Heroku**

COVID-19 TRACKER | REACT.JS, JAVASCRIPT, HTML, CSS
SELF PROJECT | Open Sourced: **Github** | Deployment: **Web**
- Developed a **responsive** covid-19 Tracker Web App using **covid-19 APIs**
- Implemented map based visualization of number of cases for selected country using **leaflet library** and designed a **popup card** for each selected country on map.
- Plotted graph for number of cases for past few days using **react-chartjs** and rendered the total cases for each country in decreasing order.

ACHIEVEMENTS

Year	Achievement
2022	Expert at Codeforces (peak rating 1644)
2022	Global Rank 6 in CodeChef Starters 62 Div 2
2020	Department Rank among Top 10 in B.Tech ME'19 upto 1st Year
2019	JEE Mains and Advanced-19 Qualified and in top 0.7 percent among 1.3 million .