Rohit Nagar

Junior | Mechanical Engineering | IIT Jodhpur
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EDUCATION

IIT JODHPUR
B.TECH IN MECHANICAL ENGG.
May 2023 | Jodhpur, India
CURRENT CGPA: 7.15/10

GOVT.SR. SEC. SCHOOL
CLASS 12 | RBSE
May 2018 | Kehsorai Patan,India
PERCENTAGE 90.00 %

SARASWATI SR. SEC. SCHOOL
CLASS 10 | RBSE
May 2016 | Keshorai Patan, India
PERCENTAGE 88.83 %

SKILLS

PROGRAMMING
Proficient:
• C++ • Javascript • HTML5
• CSS3 • Bootstrap4 • Python
• PyTorch • Matplotlib
Familiar:
• Inferential Descriptive Statistics
• Matlab • Latex • C • Flask

DEVELOPMENT
• Git • React • Firebase
• AWS

OTHER SKILLS
• Coampetitive Programming
• Solidworks • Adobe XD
• Tshirt-Design • Excel • Team Work
• Communication

LINKS

Github:// **nagar2817**
LinkedIn:// **rohit-nagar**
Twitter:// **@nagar_tweets**
CodeForces: // **nagar2817**

COURSEWORK

UNDERGRADUATE
Introduction To Computer Science
Linear Algebra
Calculus and Differential Equations
Introduction to Machine Learning
Data Structures and Algorithms
Scientific Computations

PROJECTS

REGION SEGMENTATION | ML COURSE PROJECT
Jan 2021 - Feb 2021
- Did a critical analysis of the Research Paper that is based on Region Segmentation with Genetic Alogrithm and K-mean Clustering.
- It is kind of optimized solution. where we search the combination of representative values providing the minimum euclidean difference between representative values and image data.
- With Genetic Algorithm we get almost similar results of region segmentation for any initial values.Need no to worry about intial number of cluster.

FLAME SPEED COMPUTATION | SEMESTER PROJECT |
Aug 2021 - Present | Mentor: Prof. Sudipto Mukhopadhyay
- Instead of traditional matlab software, we use different ML techniques and Neural Network algorithms for Laminar Burning Speed estimation.
- Multiple Deep Neural Network models for predicting LBV values were developed and validated. Also compared different Machine learning algorithms.
- we studied the effect of training database by changing the size and dimension.

AMAZON CLONE | SELF PROJECT |
Aug 2021 - Present |
- Developed a Amazon clone using ReactJS and deployed it on Firebase with real time database. Front-end was completely built on ReactJS and material UI.
- Features like user authentication, Addition of Production,Checkout and real time of rendering of orders were implemented.
- Tech Stack :- React,Redux,Firebase

SUDUKO PUZZLE SOLVER | SELF PROJECT |
Apr 2021 - Present
- A Real world deployed Suduko Puzzle Solver app using deep learning. Identification of existing digits are done using Optical Character Recognition.
- Tech Stack :- Python , OpenCV , OCR, Keras and Tensorflow

ACHIEVEMENTS

2021 Solved around 350+ problems on **Codeforces** and **IBhub** plateform.
2019 One of the Student to recieve **A-** out of 140+ in Electromagnetism and Optics.
2019 **JEE-19**: Among top 1% percentile of 1.3 million Applicants in JEE- 2019

MOOC'S

• Analysis of Alogrithms (Coursera)
• Responsive Web Design
• Python Zero to Mastery Bootcamp
• AWS Machine Learning Foundations Nanodegree Program
• Building Transformer-Based NLP Applications by Nvidia Deep Learning Team |
• Introduction to Inferential and Descriptive Statistics
(*ongoing..)

EXTRACURRICULAR

• Participated in many cultural Event and programming contest hosted by IITJ Pclub.
• Core member of Poster designing team ,**Ignus** 2019.