Devang Shrivastava

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EDUCATION

IIT, JODHPUR
B.Tech in Computer Science and Engineering
📅 May 2025   📍 Jodhpur, India
CGPA: 7.33

DELHI PUBLIC SCHOOL
Class 12| CBSE
📅 2021   📍 Gwalior, India
score: 95%

DELHI PUBLIC SCHOOL
Class 10| CBSE
📅 2021   📍 Gwalior, India
score: 94.4%

JEE ADVANCE
AIR: 2717

COURSEWORK

GRADUATE
Data Structure and Algorithm
Pattern Recognition in Machine Learning
Discrete Mathematics
Software Engineering
Probability, Statistics, and Stochastic
Database Management System
Operating System
Computer Architecture
Design and Analysis of Algorithm

SKILLS

PROGRAMMING
•Python • C/C++ • JavaScript

WEB
• HTML/CSS • React Js • Django
•bootstrap

MACHINE LEARNING TOOLS
•Numpy •Pandas •OpenCV
•Scikit-learn

LINKS

LinkedIn: devangshrivastava
GitHub: devangshrivastava
LeetCode: niamlee

INTERESTS

Cricket
Guitar
Music
Astronomy

Projects

COLLEGE HACKS
February 2024| React - Django Project| Github
- Created a platform for students to access previous year's question papers for various courses.
- Implemented functionality for users to filter and access question papers based on paper type (minor-major or tutorial).
- Planned a feature for users to upload question papers, with a planned verification process for added authenticity.

RESEARCH PROJECT IN GRAPH ALGORITHMS
February 2023-Present
- Conducted an in-depth analysis of four relevant research papers on disjoint optimal matching, exploring its significance in discovering relationships within various graphs.
- Investigated optimization techniques aimed at improving the efficiency of solving the **disjoint optimal matching problem** in graph algorithms.
- Discovered an algorithm for solving the diverse pair problem within maximum weight matching.

P2P NETOWRK
February 2024
- Developed a Peer-to-Peer (P2P) network utilizing a Gossip protocol for message broadcasting and liveness checking of connected peers with the ability to report dead nodes to seed nodes for maintenance.
- Implemented a mechanism where each peer connects to a minimum number of seed nodes and then to a randomly chosen subset of other peers to ensure a connected network

COVID DETECTION USING X-RAY IMAGES
April 2023
- Developed various models for detecting the presence of COVID-19 virus, Pneumonia, and mild infection using X-ray images.
- Conducted experiments with different processes to showcase the results, including masking and image processing techniques alongside Convolutional Neural Networks (CNNs).
- Demonstrated the efficacy of the developed models through comprehensive evaluation and validation.

COUNTRY CLASSIFICATION
March 2023
- Using the country dataset which included primary features like health, GDP etc., categorize the country into developed, underdeveloped and developing.
- Also reverse-engineered the entire model to study and show the dependence of different features.

Extra-curricular and PORs
- Assistant Head in Student Well-Being Committee.
- Student Guide in Student Well-Being Committee.
- Head in Technical and Entrepreneurial fest Prometeo of IIT Jodhpur'24