Rahul Pachar

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Technical Skills

Languages: JavaScript, Typescript, C, C++, Java, Tailwind CSS, Python, HTML5, CSS3, Bootstrap, React.js, Node.js
Tools: GIT, GitHub, MySQL, Metasploit, BeeF, Unix, CI/CD and Basics
Interests: Ethical Hacking, Machine Learning, Algorithms & Data Structures

Experience

Machine Learning Engineer in Research Jan - Apr 2022
Jaypee Institute Of Information Technology *Noida, UP*

- Designed and developed several ML models using Supervised Machine Learning, Deep Learning, Python and C++ accurate to over 90%
- Optimized model behaviour using MIT findings for respiratory diseases and additional datasets.

Teaching Assistant Jan - Apr 2021
IEEE Student Branch JIIT *Noida, UP*

- Assisted professor Alka Singhal in grading upto 25% of reports and tests in a class of 160 students during the Summer semester
- Lead several C++ and Data structures tutoring sessions for first and second year students

Projects

Edu-Track | *A comprehensive Full-stack web application for potent school management system* Jan - May 2023

- Created a School Management System using the MERN stack, that facilitates efficient management of various school-related tasks, including student and staff information, attendance tracking, academic performance monitoring, fee management, and communication between teachers, students, and parents.

DetectNow | *A Disease Predictor App utilizing a Supervised ML Algorithm* Jan - Mar 2021

- Created a system accurate to 88% which can predict respiratory diseases using a set of symptoms and patient metrics as input using React, Php, Javascript and NodeJs
- Launched front end functionalities to display visual representation of data collected and results achieved

NP Hard Solver | *Hybridisation-of-PSO-and-GWO* Jan – May 2020

- Developed an ML model that reduces time complexity of NP hard problems to polynomial time using python, Deep learning and C++ achieving over 150% compression on discreet data sets
- Hybridized Grey Wolf Optimizer with the 0/1 version of the previous model enabling compression for continuous data sets

Education

Jaypee Institute of Information Technology Noida, UP
Bachelor of Technology *Graduated May 2023*

- GPA: 7.1
- Top 3000 - Problem Solving @ HackerRank worldwide
- IEEE XENITH 2022 Coding Contest Runner Up

Certifications

Udemy
Advanced C/C++ *May 2021*

- Implemented several Data Structures using C and C++, developed analytical skills to assess efficiency and complexity of algorithms

Coursera
Foundations of Cybersecurity *May 2023*

- Demonstrated networks, devices, and data from unauthorized access and cyberattacks, identify common risks, threats, vulnerabilities and techniques to mitigate them