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Rajul Mahto

Technical Skills: Python, C, C++, Linux, Java, SQL, Machine Learning, Deep Learning, HTML, JavaScript, R, Heuristic Algorithm Hybridization, Algorithm Optimization, RNA-seq, Transcriptomic Analysis.

EDUCATION				
Board	Tenure	Educational institution	CGPA/Percentage	
B. Tech (CSE)	September 21 –Ongoing	VIT Bhopal University, Bhopal	9.14/10	
Class XII	March 20 - July 2021	St. Gabriel's Sr. Sec School, Ranjhi	93%	
Class X	April 18 - May 2019	St. Gabriel's Sr. Sec School, Ranjhi	95.6%	

PROJECTS		
Deep Learning Projects	 1) Cancer Detection Model (April 2023) Github Formulated a novel nature heuristic based hybridized algorithm (HHWOA) for classifying cancer from RNA-seq data; resulting in reduction of 97% selected genes alongside 100% classification accuracy. Utilized the dataset from NCBI; Built a custom RNA-seq pipeline (in Python & R) using STAR aligner, FastQC for quality assessment, quantification with FeatureCounts and DESeq2 for differential gene expression analysis. Pipeline was made in Linux WSL (Ubuntu). Fish Classification Using Deep Learning (September 2022) GitHub Improved traditional deep learning algorithm by creating a heuristic optimization algorithm (COWOA) to categorize various fish species; resulting in 99.69% classification accuracy. Prosecuted comparison of various DL models such as CNN, EfficientNetB7, DenseNet, Inception V3, Resnet50, VGG19 (in Python). 	
Web Development	 MintHub (May 2023) GitHub Created a real time cryptocurrency price tracking and graphical visualization-based website to keep users updated with market trends. Implemented C2C international transactions and fund out feature; resulting in low-cost, fast cross border payments and seamless conversion of crypto assets into INR via UPI. 	
Web Scrapping	 4) Table Scrapper (July 2021) Github Designed a Python script to extract tables from websites & convert them into CSV or other desired formats. Utilized libraries such as Selenium and Pandas; resulting in reduced time by automating the table scraping and eliminating the need for manual extraction or creation. 	

EXTRA-CURRICULARS AND ACHIEVEMENTS		
Achievements	 Awarded certificate of merit for being among the top 0.1% of successful candidates in AISCE by CBSE 2019. (Certificate: Link) Received cash prize of Rs. 2,000/- for Securing highest percentage in Social Science and Foundation of Information Technology. 	
Extracurricular	• Participated in Google Code-In 17, 18 & 19 won 4 T-shirts in total. Amongst the top 10 leaders according to ScoreLabs organization list in 2020. (Certificates : <u>Link</u>)	
Publication	1) Modified Genetic Algorithm with Deep Learning for Fraud Transactions of Ethereum Smart Contract. Applied Sciences. 2023; 13(2):697. https://doi.org/10.3390/app13020697	
	2) Novel Cuckoo Search-Based Metaheuristic Approach for Deep Learning Prediction of Depression. Applied Sciences. 2023; 13(9):5322. https://doi.org/10.3390/app13095322	
	3) CO-WOA: Novel Optimization Approach for Deep Learning Classification of Fish Image. Chem. Biodiversity 2023, e202201123. https://doi.org/10.1002/cbdv.202201123	

ADDITIONAL INFORMATION		
	• Learning Languages: Elementary Proficiency in German and Russian.	
Hobbies	Playing Games: Was in the school volleyball team.	
	• Going to the Gym: Regularly engage in weightlifting and cardio exercises to maintain and promote fitness.	
Languages	English, Hindi, German and Russian.	