

DHIRAJ SINGH

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ACADEMIC DETAILS			
B Tech (Computer Science & Engineering)	2021-2025	MMMUT, Gorakhpur	6.63/10.0
Class XII (CBSE)	2020	Jawahar Navodaya Vidyalaya, Auraiya	80.6%
Class X (CBSE)	2018	Jawahar Navodaya Vidyalaya, Auraiya	88.0%

INTERNSHIP/EXPERIENCE		
Subject Matter Expert	Chegg India Ltd	Aug 2023-May- 2024
<ul style="list-style-type: none">Solved more than 85 problems in Core Computer Science subjects.Data Structure and Algorithms, DBMS, Computer Architecture & OrganizationOperating system, Computer Network, Machine learning and artificial intelligence		

PROJECTS	
Sorting Visualizer	<ul style="list-style-type: none">Developed a Sorting Visualizer using React.js and Tailwind CSS.Implemented multiple sorting algorithms, including Bubble Sort, Insertion Sort, Merge Sort, Quick Sort, Selection Sort.Added functionality to select array size and generate a randomized array for sorting.Enabled users to choose a sorting algorithm and visualize real-time sorting animations.Improved user interaction with dynamic controls and smooth animations.

Log Classification System	<ul style="list-style-type: none">Designed and developed a Log Classification System integrating Regex, Sentence Transformer and LLMs to effectively handle logs with varying levels of complexity.Deployed a FastAPI server to process log data via RESTful APIs enabling seamless integration with existing systemsImproved log classification accuracy by 40% through the hybrid architecture compared to rule-based systems alone. Reduced operational costs by 30% by automating log analysis and minimizing manual intervention.Technologies used: Python, FastAPI, Sentence Transformers, scikit-learn and LLMs.
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Diabetes Predictor	<ul style="list-style-type: none">Developed diabetes predictor using ML algorithms: Logistic Regression, Decision Tree, Random Forest, SVM, k-NN, XGBoost.Data Preprocessing: Handled missing values, outliers, and feature scaling for optimized model performance.Implemented feature engineering: Feature selection and extraction for better prediction accuracy.Model Evaluation: Used accuracy, precision, recall, F1-score, and ROC-AUC.Hyperparameter tuning with grid search and cross-validation.Achieved best results using XGBoost with improved accuracy and reduced false positives.
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ACHIEVEMENTS	
<ul style="list-style-type: none">5 star in Hacker RankQualified gate in third year within top 10% of total candidates appearedWithin top 5% in NPTEL course “ Introduction to Machine Learning- Jan 2024	

SKILLS	
Technical:	C, C++, Python, SQL, Linux, Docker, Kubernetes, MS-Excel, MS-Word,
Soft Skills:	Proficiency in communication, Critical thinking, Negotiation, Teamwork, Problem solving
Certificates:	Machine Learning
Interests:	<ul style="list-style-type: none">ML, DL, NLP, Large Language Model, Blockchain, Cryptography, Big Data, Time Series Forecasting.