

PRAKHER PANDEY

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prakherp

Education

University School Of Information, Communication and Technology Master of Computer Applications (MCA) (CGPA: 8.95)	Aug'23 - May'25 Delhi
Keshav Mahavidyalaya, University of Delhi Bachelors of Science (Hons) in Computer Science(CGPA: 9.48)	Oct'20 - May'23 Delhi

Technical Skills

- **PROGRAMMING LANGUAGES:** C++, Python, JavaScript
- **LIBRARIES AND FRAMEWORKS :** Node.js, React.js, Express.js, HTML, CSS
- **DATABASES :** SQL, NoSQL, MongoDB
- **CORE CONCEPTS :** Data Structures, Algorithms, Object-Oriented Programming (OOP)
- **TOOLS AND SOFTWARE :** GitHub, Visual Studio Code
- **DATA ANALYTICS :** Deep Learning, Machine Learning, Data Analysis & Visualization, Natural Language Processing(NLP)

Projects & Publications

SangRakShak Github Live	Jul'24 - Aug'24
<ul style="list-style-type: none">• Architected the development of Sangrakshak, a MERN Stack chatbot providing legal guidance to Indian women on issues like domestic violence and harassment.• Engineered and deployed a custom RAG(Retrieval-Augmented Generation) API model, enhancing chatbot accuracy with training on 950+ real-world scenarios.• Assembled backend infrastructure and integrated MongoDB, Google OAuth, and email verification using Passport, ensuring a secure and scalable platform.	
DevaNet: Handwritten Hindi Text Recognition System Github	Mar'24 - Apr'24
<ul style="list-style-type: none">• Engineered a handwritten Devanagari recognition system using the IIIT-HW-Dev dataset, with samples from 12 writers across a 9,540-word vocabulary.• Standardized over 95K+ handwritten words, designed a CNN-RNN architecture for feature extraction and sequence modeling, and implemented CTC loss for variable-length sequence handling.• Computed a promising character error rate (CER) of 25.22% after 61 epochs, demonstrating the potential for further optimization and accuracy improvements.	
DWAEF: Deep Weighted Average Ensemble Framework Paper	Aug'23
<ul style="list-style-type: none">• Developed the DWAEF Framework, integrating Graph Neural Networks, BERT-based metaphor detection, and fuzzy logic, achieving 92.01% accuracy in online text classification.• Refined sarcasm detection models by enhancing the interpretation of similes and metaphors, boosting precision by 3% to 92.98% and recall to 89.59%.• Delivered substantial improvements to sarcasm detection algorithms with a 91.62% F1-Score, optimizing the system's ability to capture and process sarcasm effectively in diverse online contexts.	

Achievements & Certifications

- Ranked **1357** out of over **35,000** participants in LeetCode's "**Weekly Contest 412**".
- Secured a ranking of **1466** out of over **29,000** competitive programmers in LeetCode's "**Weekly Contest 391**".
- Attained a rank of **120** out of more than **18,500** participants in CodeChef's "**Starters 112**" contest.
- Achieved a rank of **567** in **NIMCET**, a national-level entrance examination for **MCA** programs.
- Completed **Foundation Level in Data Science and Programming** from **IIT, Madras.(Certificate)**

Leadership Experience

Placement Co-ordinator (USICT)	Nov'23 - Present
<ul style="list-style-type: none">• Fostered Public Relations with multiple companies officially and optimized database management for 250+ students.	
Google Developer Students Club - AI/ML Lead (USICT)	Nov'23 - Present
<ul style="list-style-type: none">• Pioneered a leadership role, actively contributing to the planning and organization of upcoming initiatives.	
Technical Head (Annual Cultural Fest - Keshav Mahavidyalaya)	Feb'23 - Apr'23
<ul style="list-style-type: none">• Spearheaded a team of 8 individuals, overseeing the development and maintenance of a streamlined website.	

Profile Links

- Leetcode (prakherp) : Max Rating(**1840**), among top **7%** of the contest participants
- Codechef (prakherpandey1): Max Rating(**1621**)