

Vedansh Chaudhary

Undergraduate Student

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Education

2022-12 - 2026-07 **Bachelor of Science (B.S): Interdisciplinary Science (Mathematics Major)**

Indian Institute of Technology Dharwad - Dharwad, Karnataka

CPI: 8.56/10

2020-07 - 2022-06 **Senior Secondary School**

Delhi Public School - Jaipur, Rajasthan

- Grade: 12th grade
- Percentage: 95.8%
- Subjects: Physics, Chemistry, Math, English, Hindustani Music

Work Experience

2024-05 - Current **Research Intern**

Prof Dr. Animesh Chaturvedi , IIIT DHARWAD , Dharwad, Karnataka

- Working on Multilingual Natural Language Processing for Indian languages to develop Word Corpus Text Analytics.
- Using Google Translate API to translate and transliterate Sanskrit text to Indian languages efficiently. Employed Beautiful Soup,Pandas (python libraries) to extract data from website.
- Utilised Levenshtein distance and Metaphone algorithms for string similarity and phonetic matching , improving text analytics accuracy across multiple languages.

2023-10 - Current **Public Relations Coordinator**

Career Development Cell, IIT Dharwad

- Responsible for conducting smooth placement session for the company and coordinating with the HRs.
- Co-organized innovative and engaging interview workshops for graduating students.

2023-08 - Current **Football Club Secretary**

IIT Dharwad, Dharwad, Karnataka

- Responsible for the administration of the club, arranging meetings and dealing with any administration regarding the club.

Projects

Movie Recommendation System:

- Developed a high-performance, recommendation system algorithm with an integrated Collaborative and content based Filtering for entertainment purposes.
- Conducted cross-validation to ensure model generalization, resulting in significant accuracy improvement compared to other models.
- Integrated an advanced Emotion processing NLP module for various capabilities.

Non-Dominated Sorting:

- Scrutinization of Efficient Non-Dominated Sorting (DDA) method.
- ENS-DDA is a paper published by researchers at IIIT Guwahati in IEEE-2020.

Review of The Game of Cops and Robbers on Graphs:

- It is a book published in American Mathematical Society by Anthony Bonato and Richard J. Nowakowski.
- Presented a particular theorem on graph homomorphism and retract of a graph.

Key Courses

- Introduction to Prompt Engineering, Data Structures and Algorithms, Design Analysis, Artificial Intelligence, Neural Networks.
- Linear Algebra, Real Analysis, Calculus, Discrete Maths, Statistics & Probability, Group Theory.
- Coursera ML Specialization , IBM Machine Learning with Python.

Skills

C, Python, C++ Programming Language

Data Structures & Algorithm , HTML, CSS, SQL

Windows,Linux

Machine Learning, Neural Network , Generative Adversarial Network, Generative AI , Basic NLP,

Numpy, Pandas, OpenCV, Scikit-learn, Keras, Selenium, Beautiful Soup, Matplotlib

Leadership, Communication Skills

Honors & Activities

- Attended a High End Workshop organised by IIT Indore on the topic "Mathematical foundations of AI/ML" completely funded by Science and Engineering Research Board (SERB) , Govt. of India.
- Awarded distinction certificate for scoring above 80% marks in State Talent Search Examination (STSE) in 2019 conducted by Rajasthan Board of Secondary Education, Government of Rajasthan.
- Awarded Merit Certificate for scoring 100/100 marks in CBSE Board Mathematics exam in 10th grade.