



# Yuvraj Singh

Jaipur, Rajasthan

B.E. - IIIrd Year Artificial Intelligence and Data  
Science Engineering

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Github | Codechef | Leetcode | LinkedIn

## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.E.	MBM University Jodhpur	8.50	2022-Present
Senior Secondary	GRGA Jaipur/CBSE Board	89.8%	2021
Secondary	GRGA Jaipur/CBSE Board	90.8%	2019

## EXPERIENCE

- **IKSMHA Center IIT Mandi** June 2024 - July 2024  
*ML Intern* Mandi, H.P.
  - Developed a machine learning model to generate personalized wellness prescriptions based on disease-specific data. Handled data collection, pre processing, model training, and prediction, with a focus on integrating co-morbid conditions to improve the precision of yoga, diet, and lifestyle recommendations.
- **NIT Kurukshetra** June 2024 - July 2024  
*Research Intern* Kurukshetra, Haryana
  - My research investigates the efficacy of three prominent platforms, Stack Overflow, Quora, and Google Gemini, in addressing unresolved questions related to Numpy and Pandas. I evaluated the performance of each platform in resolving such queries and explores the role of advanced AI systems in addressing these gaps. I examined how AI technologies, beyond these platforms, contribute to resolving technical questions, including their effectiveness in generating accurate and relevant answers.

## PROJECTS

- **Face Tracking Webcam with Hand Gesture Controls** Github
  - This project utilizes OpenCV and MediaPipe to implement a real-time face tracking system with smooth motion, hand gesture-based zooming, and a virtual writing pad. The system detects faces, tracks movement smoothly using exponential smoothing, and enables hand gesture-based zoom control. In addition, users can switch on a virtual writing pad to draw using hand tracking, with an optional eraser mode.
- **Movie recommendation system** Github
  - Developed a content-based movie recommendation system using Python and the Streamlit framework. Leveraged cosine similarity on movie metadata (genre, keywords, cast, etc.) to generate personalized movie suggestions. Designed an intuitive web interface that displays movie posters and recommendations in real time using the TMDB API.
- **Indian Premier League** Github
  - Built a machine learning model to predict IPL match outcomes based on historical match data. Performed data cleaning, exploratory data analysis (EDA), and feature engineering to derive meaningful insights. Trained and evaluated models such as Logistic Regression and Decision Trees to forecast match winners with significant accuracy.
- **ML-Driven Personalized Wellness Prescriptions Using Disease-Specific Practice Data**
  - Developed a Machine Learning model trained on data with various co-morbid diseases, which accurately predicts recommended and prohibited Yoga Poses, Diet, Pranayama, Meditation, Mantras, and Lifestyle practices. Currently working on it to improve its abilities and recommendations.

## SKILLS

- **Programming:** C, C++, Python, MySQL
- **Libraries/Frameworks:** Numpy, Pandas, Matplotlib, Scikit-learn, Tensonflow, Keras, Opencv, Mediapipe, Pickle, Streamlit
- **Technical:** DSA, HTML, CSS, DBMS, Javascript, Machine Learning, Deep Learning, Natural Language Processing, Computer Vision
- **Operating Systems:** Windows
- **Non Technical:** Leadership, Team Management

## KEY COURSES TAKEN

- **Mathematics:** Linear Algebra, Basic Calculus, Discrete Maths, Probability & Statistics
- **Technical:** Data Structures and Algorithms, Machine Learning

## ACHIEVEMENTS

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- **Top Contributor in AI ML Workshop**, AIM - AIPlane Tech 2025
  - Participated in a 10-day hands-on workshop focused on Natural Language Processing (NLP) and Computer Vision. My contributions led to being recognized as the top contributor, earning a trophy and certificate for my outstanding performance during the training. This experience allowed me to apply and enhance my skills in both NLP and Computer Vision, working on real-world projects and collaborating with peers to achieve project success.
- **Google Cloud Study Jam**, GDSC 2023
  - Participated in the Google Cloud Study Jam conducted by the GDSC Club of my college, where I gained foundational knowledge and hands-on experience in cloud computing. It helped strengthen my understanding of cloud technologies. In recognition of my participation and efforts, I was awarded goodies for my involvement.
- **NCC 'C' Certificate**, 4 Raj Air Sqn 2025
  - Qualified the National Level Exam 'National Cadet Corps C Certificate Exam'
- **Gate DA 2025**, Qualified 2025
- **Solved 400+ DSA Problems across coding platforms.**

## EXTRACURRICULARS

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- **NCC Cadet**, 4 Raj Air Sqn NCC, Jodhpur 2022-2025
  - As a regular cadet at the National Cadet Corps (NCC), I have developed strong leadership and personality development skills. I have attended the Basic Leadership Camp and the Annual Training Camp, both of which significantly enhanced my personal growth and leadership abilities.