

Penabadi Chakradhar

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EDUCATION

- **Indian Institute of Information Technology, Allahabad** November 2022-June 2026
B. Tech in Information Technology CGPA: 7.56
- **Narayana Junior College** 2022
Telangana State Board of Intermediate Education Percentage:95

EXPERIENCE

- **IIITA** June 2024-present
Undergraduate Research Assistant
 - Built a **machine learning** model, achieved **high accuracy 91%** accuracy in predicting personalized travel recommendations based on user demographics and preferences.
 - Identified patterns in user demographics that **improved targeted recommendations from 15% to 25%**, enhancing relevance and personalization.
 - **Technologies & Course Work:** Python, Natural Language Processing (Bag of Words, sentiment analysis), Scikit-Learn, Google Colab.

PROJECTS

- **LipSync** July 2024
<https://github.com/Chakradhar-2004/LipSync>
 - * **Tools & technologies:** Python, Video Classification, Tensorflow, OpenCV
 - * Developed an **Artificial Intelligence model** focused on analyzing lip movements in video, enhancing authenticity detection accuracy by 88% and achieving a 30% reduction in processing times compared to full-face analysis.
 - * **Structured Frame Analysis:** Structured Frame Analysis: Processes 30 frames simultaneously, applying color grading techniques to enhance captured frames and highlight irregularities.
- **Foodie** April 2024
<https://github.com/Chakradhar-2004/Foodie>
 - * **Tools & technologies:** JavaScript, Natural Language Processing, ReactJS, Node.js, Express.js, MongoDB
 - * Designed a food delivery **web application featuring a chatbot**. Added over 50+ local restaurants and 500+ food items to enhance the platform's offerings, **integrated Google Cloud OAuth** for secure login and sign up.
- **Real-Time Chat App** December 2023
<https://github.com/Chakradhar-2004/Chat-Application>
 - * **Tools & technologies:** JavaScript, Socket.io, ReactJS, Node.js, Express.js, MongoDB, CSS
 - * Engineered a real-time chat **website** featuring instant messaging between 1000+ community members, achieving average response times under 200 milliseconds. Added features for sending emojis and file sharing
 - * **Optimized server efficiency by 20% through Queue Data Structures** and enhanced login/sign up security via **Google Cloud OAuth** and integrating Socket.io for real-time chat functionality

ACHIEVEMENTS

- **Walmart Spark Plug '24** Secured **Global rank 445** among 20,000+ participants October 2024
- **Highest Rating 1711 on LeetCode** Best Global rank 3261 on Leetcode Weekly Contest 412.
- **3 Star on Codechef:** Secured Global Rank of 46 in CodeChef Starters 159 (Division 4)
- **Pupil on CodeForces** Achieved Global Rank of 3282 in CodeForces Round 980 (Div. 2)

TECHNICAL SKILLS AND INTERESTS

Languages: C, C++, Python, JavaScript, HTML, CSS

Frameworks: Tensorflow, OpenCV, Scikit-Learn, NLP, ReactJS, NodeJS, ExpressJS, Bootstrap

Cloud/Databases: MySQL, MongoDB

Coursework:: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, DatabaseManagement System, Machine Learning

Areas of Interest: Machine Learning, NLP, Web Development, App Development

POSITIONS OF RESPONSIBILITY

Member in Media Society: Collaborated with over 50 members, contributed in many events

Member in Mess Committee: Collaborated with team members to plan and manage daily meals for 600 plus students