

# AMBATI HARI CHARAN

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## Education

**Indian Institute of Information Technology, Vadodara**  
*Bachelor of Technology in Computer Science and Engineering*

**Dec 2021 - July 2025**  
*CGPA: 7.21*

**Tirumal Junior College**  
*State Board*

**2020**  
*Grade: 9.4*

## Experience

**Indian Institute of Information Technology Vadodara**  
*Research Intern*

**May 2024 - August 2024**  
*Gujarat, India*

- Developed Transformer Reinforcement Learning (TRL) models for Lunar Lander and Cartpole, achieving an 81% success rate compared to 64% with traditional RL, and improving average rewards by approximately 11%.
- Optimized TRL models to reduce standard deviation in performance by 29%, resulting in more consistent and stable learning outcomes.

## Coursework

- Data Structures & Algorithms
- Database Management System
- Operating System
- Object-Oriented Programming
- Information Retrieval

## Skills

**Languages:** Java, Python, JavaScript, SQL

**Machine Learning/AI:** Tensorflow, PyTorch, Scikit-learn, Numpy, Pandas, Matplotlib

**Frontend:** HTML, CSS, ReactJS

**Backend:** Express, Node.js

**Tools:** Github, Git, Vscode, Jupyter

**Databases:** MySQL, MongoDB

## Projects

**EasyText** | *Python, React.js, Node.js, Express.js, MongoDB, FitZ, SciPy, webcolors* | [Link](#)

- Achieved 100% accuracy in text extraction, ensuring all highlighted textual content is accurately extracted with the implementation of a sophisticated categorization system for textual highlights.
- Successfully processed PDF files exceeding 100 pages, ensuring efficiency and accuracy even with large-scale documents.

**Movie Recommender System** | *Python, Streamlit, Pickle, TMDb API, NLTK* | [Link](#)

- Developed an interactive movie recommender system with Streamlit, enhancing user engagement by providing personalized movie recommendations and visually appealing posters.

## Achievements

- Certificate on Fundamentals of Deep Learning | Nvidia Deep Learning Institute
- Certificate on Machine Learning | Udemy
- **Hostel Management System:** Idea accepted by IIIT Vadodara under SSIP Gujarat Program in 1<sup>st</sup> category (March 2023)