

# Yeswanth Chirumamilla

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## Education

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### B.Tech National Institute of Technology Andhra Pradesh

2022 – 2026

Computer Science and Engineering

CGPA: 9.48/10.00

## Projects

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### Enhancing User Experience with Web Scraping

- Developed a Python-based web scraper using Selenium and BeautifulSoup to automate data extraction from multiple sources.
- Designed four modules: a movie data aggregator, weather data aggregator, price comparator, and doubt resolver.
- Built a doubt resolution system that retrieves data from five websites, summarizes it using BERT, and provides accurate answers.

### Movie Sentiment Analysis

- Applied sentiment analysis techniques to compare the performance of an SVM classifier and an RNN with LSTM on movie reviews.
- Evaluated the RNN with LSTM, which is suited for sequential data, but observed a limited accuracy of 50%.
- Achieved 86.9% accuracy using an SVM classifier, significantly outperforming the RNN model.

### Chat Application using MERN Stack

- Built a full-stack real-time chat application using MongoDB, Express, React, and Node.js.
- Integrated authentication mechanisms and deployed the application on Render.com.
- Implemented core features such as sending friend requests, tracking online status, real-time messaging, and friend list management.

### Comparison of Online Learning Optimizers for StarCraft II Mini-Games

- Compared the performance of FTRL and  $\beta$ -FTRL optimizers in StarCraft II mini-games.
- Demonstrated that  $\beta$ -FTRL achieved 100% more reward in 50% less time than FTRL in one of the mini-games.
- Found  $\beta$ -FTRL to be more stable and better suited for dynamic, fast-paced environments.

## Certifications and Courses

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- **NPTEL Online Course on Cloud Computing** Conducted by IIT Kharagpur, focusing on cloud architecture, services, and deployment models *(Among the top 1%)*
- **IIT Madras BSc Foundation Level**  
Completed foundational courses in Mathematics, Statistics, and Python with a CGPA of 9.25.
- **Udemy Certification in Python, NLP, and Machine Learning**  
Completed multiple courses covering Python programming, Natural Language Processing (NLP), and Machine Learning techniques, including data preprocessing, model training, and deployment.

## Technologies

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**Core Skills:** Data Structures and Algorithms, OOPS, AI, ML, Deep Learning , Reinforcement Learning

**Languages:** Python, C, Java, JavaScript

**Web Technologies:** HTML, CSS, React.js, Node.js, Express.js

**Frameworks:** Django, MERN

**Databases:** MySQL, MongoDB

**Cloud Services:** AWS, Firebase, Render.com

**Machine Learning Libraries:** NumPy, Pandas, Scikit-learn, Matplotlib

## Positions of Responsibility

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**CSEA |** Technnical Student Club of NIT Andhra Pradesh

- **Joint Secretary:** Managed events that attracted more than 500 participants and were successful. 2025
- **Senior Executive,** Worked on multiple projects including Unity-based image-to-video generation, AI-based Tic-Tac-Toe, and a Snake game using reinforcement learning. 2024-2025

**Graphic Cafe |** Student Club of NIT Andhra Pradesh

- **Executive Member,** coordinating technical aspects of events and supporting. 2024-2025
- **Design Team Member,** contributed to creative and visual content development. 2023-2024