

# Ashutosh Reddy

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## EDUCATION

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### Vellore Institute of Technology

Vellore, India.

B.Tech Computer Science and Engineering | **8.53/10**

2018-2022

Sri Chaitanya Junior College | Higher Secondary | **96.0%**

2016-2018

Sri Chaitanya Techno School | Secondary | **9.8/10**

2015-2016

## ACADEMIC PROJECTS

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### Autonomous Functional Testing:

Automation of testing process which involves different UI components, broadly speaking Intent recognition, where actions to perform are identified from plain English, object detection: using bounding boxes and action performing using web automation tools.

### Interactive C-shell:

Developed a user-interactive shell in C, Implementing the major features of GNU/Linux shell using various syscalls like ExecVp, stat(), getcwd, pipe() etc. The features we implemented are like I/O piping, redirection, signal handling (Ctrl C, Ctrl D and other signals), basic commands etc as a part of Operating Systems Course.

### Extreme Tic-Tac-Toe Bot:

Developed an Ultimate Tic-Tac-Toe Bot, you will have a large 4x4 board where winning => completing either row/column or diagonals with your marker. We have achieved this by using Min-Max algorithm by which the opponent will choose the move that will minimise our winning and we will choose a move that will maximise our winning and we also implemented an optimization technique using Alpha-Beta Pruning and an Effective Heuristic function to find the next Optimal Move.

### Word Prediction Application :

This project is done to develop a program having industrial application to predict words using TRIE based dynamic data structure. TRIE is an ordered tree data structure that is used to store a dynamic set or associative array where the keys are usually strings. The Root Node is always NULL in a trie data structure and the rest of Nodes contains mainly two components i.e. its children and a marker to indicate a leaf node.

## WORK EXPERIENCE

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### Software Engineer Internship, Ninjacart:

02/05/2021-30/07/2021

I have worked as SDE intern in Ninjacart for 3 months. During this process I have mostly learnt React native framework and worked on developing the UI of Ninjacart Trader App which is a B2B app, where I created animations and interactive components using React Native, built a backend API for data storage using NodeJS and Express framework.

### PRISM program Intern, Samsung R&D:

02/01/2022-30/06/2022

My team and I developed a framework that accepts the float 32-bit model and produces an 8-bit quantized model that can run on Arm NN runtime. We processed 200 TB of data and ran it through our model, creating an efficient 8-bit result. Using asymmetric per channel quantization, we were able to beat the accuracy of previously used methods and increased performance by 130%.

### Software Engineer, Shell

07/08/2022-present

Integrating SHELL's internal tools with slack by creating an interactive Slack Bot.

- Using Flask & Bolt python framework and Socket Mode protocol of slack to make the bot secure and robust.
- Other learnings include NLP RASA Framework, internal tools Jarvis and DQM.

## CERTIFICATIONS

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- Advanced Algorithms and Complexity.
- Digital Systems: From Logic Gates to Processors
- Text Mining and Analytics
- Web Application Technologies and Django

## POSITIONS AND RESPONSIBILITIES

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**Member, Core Committee, FES - NGO, FES – NGO:** 2019-20

- Organized 10+ Teaching Session for local villagers by forming a student volunteer group of more than 5 people
- Distributed clothes to more than 200 needy people by installing 5+ happiness stalls and having 10+ volunteers

**Founder and Vice-Chairperson, Zero Waste Management Club :** 2020-21

- Designed **prototype** with a sensor technology to segregate waste based on the moisture content present in waste
- Conducted awareness campaign among **500+ students** through 12 events on waste management and segregation.

**Operational Head of The AI and ML club(TAM):** 2021-22

- Managed a 20 members team and organized 7 events in campus to spread awareness about real life usage of ML and AI by inviting successful entrepreneurs through virtual webinars .

## EXTRA -CURRICULAR ACTIVITIES

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### Sports:

- Achieved 1<sup>st</sup> place in PEGASUS Badminton Tournament at CMC out of 45 prominent engineering colleges
- Represented Vellore Institute of Technology in Zonals, Districts and Open National badminton tournaments

### Public Speaking:

- Awarded the 2<sup>nd</sup> Runner-Up position as Lok Sabha speaker in MUN at Youth Summit, Amity Law School

### Social Service:

- Volunteered in helping the people of NR Extension in Anantapur town during the Pandemic Seal Down
- Awarded by Government of Andhra Pradesh for the courageous help that was done during the covid pandemic

### Hobbies:

- Badminton, Collecting Currencies and Travelling .

## ACHIEVEMENTS & AWARDS

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### Hackathons:

- Ranked top 5 in HackerTech2019(Hackathon).
- Best Presentation Team - DevJams2021(Hackathon)

### Olympiads:

- AMTI it's a mathematics Olympiad secured 8 th Rank in Nation
- IAPT it's a physics Olympiad ranked 12 th in Nation.
- Secured 7354 rank in IIT Advanced Exam where over one million people appeared for it.

## PRACTICAL SKILLS

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**Languages** English |Hindi|Telugu|Tamil

**ICT** React, C++, Java,Python,SQL,HTML,C,MongoDB