

# Maddala Karthik

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## About

An enthusiastic problem solver committed to hard work, punctuality, and perfection of the given task. Confident Individual with efficient communication skills. Ability to learn new software and technologies quickly.

## Education

AMRITA VISHWA VIDYAPETTAM,  
AMRITAPURI, KERALA  
BTech in Computer Science and  
Artificial Intelligence  
2020-Present CGPA: 8.83

SRI CHAITANYA JUNIOR COLLEGE  
(RB1), VIJAYAWADA, AP  
HIGHER SECONDARY SCHOOL  
(MPC)  
2018-2020 CGPA: 9.71  
Secured 97.65 percentile in the All  
India JEE Mains

SRI CHAITANYA HIGH SCHOOL,  
BHIMAVARAM, AP  
SECONDARY SCHOOL  
2017-2018 CGPA: 9.30

## Skills

### PROGRAMMING

• Python • Familiar with: Java

### WEB TECHNOLOGIES

• Html • Css • Bootstrap • Javascript  
• Django

### DATABASE MANAGEMENT

• SQL • PostgreSQL • Cassandra  
• MongoDB

### SOFT SKILLS

• Problem-solving • Critical thinking  
• Time management • Flexibility

### LINKS

• [HackerRank](#) • [LeetCode](#) • [GFG](#)  
• [LinkedIn](#)

## Hobbies

• Playing chess • Listening music

## Community Outreach

CODING AND PHYSICAL FITNESS  
AWARENESS WORKSHOP  
Nov 2022 [link](#)  
Conducted a workshop for higher  
secondary students to understand  
the importance of coding and  
physical fitness.

## Experience

### CODE@AMRITA CLUB MEMBER

A COMPETITIVE CODING CLUB

May 2022–Present

A student community that provides an insight into programming through various coding platforms and competitions. Learn about new things and give back to the community by helping each other learn and explore.

## Projects

### AMAZON CUSTOMER REVIEW ANALYSIS

CLOUD ARCHITECTURE BASED PROJECT

Oct 2022 – Dec 2022 [Github](#)

Technologies Used: Python, PySpark, AWS, RDBMS

- The project is to do ETL and analysis of Amazon Vine reviews with AWS and PySpark.
- Analysed the vine reviews to identify the genuine reviews using pyspark.

### NETWORK INTRUSION DETECTION

NETWORKING BASED PROJECT

Oct 2022 – Dec 2022 [Github](#)

Technologies Used: Python, Ryu-Controller, Mininet

- The project is to design an Intrusion Detection System (IDS) which monitors network traffic for suspicious activity and issues alerts when such activity is discovered.
- Developed network architecture and generated training data.

### ROS-ENABLED SURVEILLANCE ROBOT

SOFTWARE AND HARDWARE BASED PROJECT

May 2022 – June 2022 [Github](#)

Technologies Used: Python, ROS, Raspberry pi

- A ROS-Enabled surveillance robot is designed which can be controlled remotely and streams the video feed simultaneously.
- Webcam and Raspberry Pi were integrated to record the live video stream.

### SOLUTION TO KNIGHT PROBLEM

DYNAMIC PROGRAMMING BASED NOVEL PROJECT

Oct 2021 – Nov 2021 [Github](#)

Technologies Used: Python

- The project is to find minimum steps required by the knight to reach target and the probability of knight to remain on the chessboard.
- It uses the dynamic programming memorization strategy.

## Certifications

### NETWORKING ESSENTIALS

OFFERED BY CISCO NETWORKING ACADEMY [Certificate](#)

May 2023

### FINISHED SOFTWARE ENGINEER PRACTICAL TASK MODULES

COMPANY: JPMORGAN CHASE AND CO. [Certificate](#)

July 2022

## Courses

### DATA STRUCTURES AND ALGORITHMS IN PYTHON

OFFERED BY DATACAMP, MAY 2023

### PYTHON FOR DATA SCIENCE, AI AND DEVELOPMENT

OFFERED BY COURSERA, SEP 2022