

# Dheeraj Koppaka

 <https://github.com/DHEERAJKOPPAKA> | 

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## SUMMARY

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A self-driven Computer Science undergraduate in Convolutional Neural Networks for image classification, dataset management, Java GUI, SQL, Python, AI, ML, software engineering, networks, databases, web-scraping, and automated data analysis; passionate gamer enhancing problem-solving skills.

## WORK EXPERIENCE

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### UROP, OCT classification using VGG-16, SRMAP

AUGUST-DECEMBER 2023

Led research using CNNs for retinal OCT images, managed a dataset of 1000 images, implemented preprocessing techniques, conducted hyperparameter tuning using PyTorch, and fine-tuned VGG-16 for retinal OCT image analysis.

### APSSDC-Django Developer

JUNE-AUGUST 2023

Developed robust web applications for APSSDC using Python and Django framework, with a strong understanding of backend development, RESTful APIs, and database management.

## PROJECTS

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### Block Chain Based Crowd Funding Platform

Developed a robust Crowd-Funding System using blockchain technology and the MERN stack, ensuring security, transparency, and advanced functionalities.

### OCT using Transfer learning Model

Presented a VGG16 (CNN) architecture for OCT image classification, optimizing hyperparameters to enhance model performance and analyzing the impact of hyperparameter tuning on generalization.

## EDUCATION

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### SRM University AP

2021-2024

Bachelor's Degree in Computer Science (CGPA: 7.92/10.0)

### Sri Viswa IIT & Medical Academy

2019-2021

Class 12th (Percentage: 92)

### Narayana e-techno School

2018-2019

Class 10th (GPA: 9.8)

## SKILLS

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- Programming Languages: C, C++, Python, Java.
- Operating Systems: Windows, Linux
- Problem Solving: Algorithmic techniques
- Database: MongoDB, MySQL
- Web Development: HTML, CSS
- Computer Networks