

INTERESTS – Software Engineering | ML | AI



EDUCATION

The University of Chicago, Chicago, IL

Master Program in Computer Science

Relevant Course Work: Parallel Computing with Go, Python Programming, Cloud Computing, and Software Engineering. CGPA: 3.8/ 5.0

Vellore Institute of Technology (VIT), Vellore, Tamil Nadu, India

Bachelor of Technology: Computer Science and Engineering. CGPA: 9.0/10.0

SKILLS & PROFESSIONAL CERTIFICATIONS

- C | C++ | Java | Python | Go | MySQL | AWS
- Databases and SQL for Data Science (IBM) | Foundations of AI (NASSCOM)
- Image Processing | Data Structures and Algorithms | Cloud Computing | Machine Learning
- Logical Thinking | Communication | Leadership | Public Speaking | Team Player | Planning and Organization

EXPERIENCE

NDimensionZ, Kochi, India

Design and Development Intern

- Automate extraction of important data in client bank documents
- Developed a program to detect tables from bank documents by using Faster Region-based Convolutional Neural Network (Object Detection)
- Used Image Processing concepts to improve OCR (Optical Character Recognition) reading of image files and for improving the quality of training data

TCS iON, Remote

Machine Learning Intern

- object recognition using Artificial Intelligence and Open CV. Utilized YOLO (You Only Look Once) algorithm for vehicle detection.
- Designed a detection system, complete with alarms and distance measuring

KEY ACADEMIC PROJECTS

Parallel Image Processing

Developed a program to apply effects on images parallelly. [Go programming language]

Types of Steganography

Developed a program to conceal any file within various media such as text files, audio files, photos and videos.

Vehicle Collision Detection System

Developed a program to warn a driver of potential collisions using real-time object detection using dashcam footage. Vehicles were identified using real-time object detection. [OpenCV, Python, YOLOv4]

Traffic Speed Radar

Developed a program to estimate the speed of vehicles from stationary road footage, using OpenCV and Image Processing Concepts.

Pose Estimation and facial recognition

Developed a program to implement pose estimation, hand-gesture detection and facial recognition in Python. [MediaPipe API]

Travelling Salesman Problem on Indian Dataset

Developed a project with a user interface to find an optimal route (consisting of EV charging stations) for an EV vehicle. [Google Maps Platform API, tkinter library Python]

EXTRACURRICULARS

V.P. Public Relations Toast Masters Club, VIT Hackathon Code Crunch20 – 25th Rank, Chess, Badminton, Music