



# AJAY KAARTHIC J

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## EDUCATION

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### Sri Venkateswara College of Engineering, Chennai, India

*Bachelor of Technology in Information Technology (Aug 2016 – Present)*

Coursework: OS, DBMS, Data Structures, Object Oriented Analysis and Design, Data Science, Automata and Compiler Design

Neural Networks and Deep Learning – Coursera (Dec 2018)

## PROFESSIONAL EXPERIENCE

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### Freelance AI Consultant

*Dforth technologies, Chennai (June 2019 - Present)*

- Designed a Computer Vision system with PoseNet and Darknet to analyze the swing action of golf players and track the trajectory of the golf club.

### Summer Intern

*SIEMENS Ltd, Chennai (May 2019 - June 2019)*

- Interned with the FEA team, which is a part of the Software Engineering Office.
- Automated pre-processing and postprocessing of FEA analysis in Ansys in Python.
- Developed a distributive software to extract data from pdf and fetch to Excel.

## RESEARCH PROJECTS

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### ONGOING

**Using Pose estimation to predict the correctness of an exercise performed in an unconstrained environment** (July 2019 - Present)

- Proposes a method to understand an activity performed and after being analysed with the rule book, it gives feedback to the user.

### COMPLETED

**Autonomous Drowning Rescue System** (June 2019 - Sep 2019)

- Implemented YOLO object recognition to identify and spot the location of drowning people, which triggers a lifebuoy to rescue the victim.

**Road's Eye** (Sep 2018 - Feb 2019)

- Full-stack video surveillance application of vehicles on the road, automatically manages traffic, track vehicles and identify traffic rule violators.

## TECHNICAL SKILLS

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Programming Languages: Python, C, C++, SQL

Machine Learning Frameworks: OpenCV, TensorFlow, Scikit-learn, NumPy, Pandas

## HONORS AND AWARDS

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- **Honorable Mention at IEEE YESIST 12** (Sep 2019)  
*An International Innovation Challenge with the participants from nearly 10 countries, held at Stamford International University, Thailand .*
- **Winner of VIVID 19** (Mar 2019)  
*A National level Project competition with over 100 participants from the country held at SSN College of Engineering, Chennai, India.*
- **Winner of Mozo Hack** (Mar 2019)  
*A 36-hour Hackathon organized by MOZO club with more than 50 teams, held at SRM University, India.*
- **Winner of VISAI 19** (Feb 2019)  
*An International Project competition and exhibition held at Vel Tech University, India and over 80 Universities participated.*
- **Winner of Hack and Tackle** (Feb 2019)  
*A 24-hour Hackathon with 45 teams organized by SSN-IEEE held at SSN College of Engineering, India.*