



AJAY KAARTHIC J

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EDUCATION

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

Software Development Intern – Athena health, Chennai (Jan 2020 – Present)

- Developed a prototype to recognize handwritten text recognition using Mxnet.
- Designing an architecture to incorporate a search engine for Athenanet for document search

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)

- 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

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

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

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

HONORS AND AWARDS

- **Honourable 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.