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

Freelance AI Consultant

Dforth technologies, Chennai (June 2019 - Oct 2019)

- 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

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