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 Developer 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.*