Siddhartha Kasaraneni (Sid)

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SUMMARY

I work as a full-time consultant at Chalmers Industriteknik (CIT) on a temporary basis. I provide machine learning, embedded electronics and cloud-based solutions to CIT's customers. Currently, I'm looking for a permanent full-time job within a similar scope.

EDUCATION

Chalmers University of Technology, Gothenburg - *Ms in Complex adaptive systems*

AUGUST 2016 - MAY 2018

- During this period I studied courses on machine learning, autonomous robots, agent-based modeling, optimization algorithms, dynamical systems, data visualization, and data mining techniques.

Vellore Institute of Technology(VIT), India - *B.Tech in Mechanical engineering*

JUNE 2012 - JULY 2016

- My research area was in computational fluid dynamics and cellular automata applied to pollution control in automobiles.
- I worked as a computational design tester in SAE aero-design team in my 4th year of studies.

WORK EXPERIENCE

Software Developer at Chalmers Industriteknik, Göteborg

JULY 2018 - Present

- Currently working on developing machine learning algorithms, embedded electronics and cloud-based solutions for customers at Chalmers Industriteknik.

Master's Thesis at Husqvarna construction products, Jonsered

JANUARY 2018 - JUNE 2018

- Investigated the possibility to automate one of their products using machine learning algorithms in python development environment.
- Different algorithms based on Reinforcement Learning were developed and tested in virtual environments.

TECHNICAL SKILLS

Data Science Knowledge:

Data mining, Signal processing, Shell scripting, Machine learning (supervised, unsupervised, reinforcement), TensorFlow-python, embedded electronics (raspberry pi, Arduino etc), cloud computing (AWS).

Programming languages:

Python, C#, Haskell, C++, Typescript, JavaScript, Matlab.

Tools:

Shell scripting, AWS cloud, Git-Version control, SQL databases, Latex.

ACHIEVEMENTS

Hack-a-bike official winner: at Cybercom, Gothenburg

Event details: Read at Cybercom blog.

Prototype details: An IOT-based mobile app that handles the safety and maintenance of the bike as well as the safety of person riding it, with a convenient user interface.

Volvo Experience (runner-up prize): at Gothenburg Startup Hack, 2018

Event details: Read at Gothenburg startup hack website.

Prototype details: A web-app based on deep learning model (VAEs) has been developed to enhance the low-res images that can be applied for enhancing traffic and surveillance footage.

LANGUAGES

English: Fluent, Swedish: Basic(Learning),

Telugu: Mother Tongue, Hindi: Conversational proficiency

HOBBIES

Cycling(daily commute), Skateboarding, Basketball, Badminton, Hiking, Yoga.