Sidharth Sindhra

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EDUCATION

IIT KHARAGPUR

B.TECH + M.TECH (DUAL DEGREE) Metallurgical and Materials Eng 2012-2017 | Kharagpur, India

UDACITY

SELF-DRIVING CAR NANODEGREE Computer vision & Deep learning Nov 2017 - Present

LINKS

Github://schrodinger LinkedIn://SidharthSindhra facebook://sidharth.sindhra Medium://sidharth.sindhra

COURSEWORK

GRADUATE

Computational Neuroscience Genetic Algorithms Data structure and algorithms Natural Language Processing

UNDERGRADUATE

Basic Electronics
Programming and Data Structure
Proabability and Stochastics
Partial Differential Equations

MOOCS

Algorithms I and II
Machine Learning
Computer vision
Deep learning
Web Development in python

SKILLS

PROGRAMMING

Over 5000 lines: Python • Matlab

Over 1000 lines:

C++ • lua • Javascript

Familiar:

MTFX • Android • CUDA • MySQL

TOOLS

Platforms & Libararies

AWS • Google App Engine • Git

TensorFlow • torch • sklearn • NLTK

EXPERIENCE

MARTIAN LABS | SOFTWARE INTEGRATION LEAD

Dec 2016 - Sept 2017 | IIT Kharagpur & Chandigarh

Martian Labs is a project deeply inspired from MIT Media Labs OpenAg Initiative where we built a controlled environment simulator for growing leafy green vegetables, not meant to be grown in ambient environment. Published project summary article, viewed 566 times till date.

-"I'm just too damn proud of you!", Prof. N.Chakraborti | IIT Kharagpur -"Amazing", Ashris Choudhary | MIT Media Labs

SURUKAM ANALYTICS | RESEARCH INTERN

May 2015 - July 2015 | Chennai, India

- 3 out of 250 applicants chosen for the position.
- A Microsoft accelerator startup working in automating legal work flows.
- Responsible for developing the Text Classification Engine using Temporal Convolutional Neural Network.

PROJECTS

AIMA | OPEN SOURCE CONTRIBUTOR

March 2016 - April 2016 | Kharagpur, WB

- AIMA is Python implementation of algorithms from Russell And Norvig's "Artificial Intelligence A Modern Approach".
- Repository directly monitored by Peter Norvig (Director, Google Research)
- I contributed in chapters of machine learning and decision theory along with test suits.
- Wrote 400 lines of production quality code.

EVOLUTIONARY ALGORITHMS BASED OPTIMIZATION

July 2015 - May 2017 | IIT Kharagpur

Used evolutionary Neural Network to solve the problem of under-fitting and overfitting neural networks on noisy blast furnace data. Found the optimal network architecture using prey-predator model after running for 150 generation. Increased accuracy by 21.2%

SYNONYM GENERATION USING GOOGLE WORD2VEC

Dec 2015 - Jan 2016 | IIT Kharagpur

Trained first 1 Billion characters from Wikipedia as training set provided by google on Word2Vec Neural Net. Analyzed noise made by accompanying anto/hyper/hypo nyms. Conducted experiments by stacking WordNet to narrow search.

AWARDS

2017 Winner GES, Gupshup Hackathon

2015 top 20/1300 American Express, AnalyzeThis (Data Science)

2011 1st Physics, CBSE XII Board, Radha Vatika

2011 top 3600/479651 IIT-JEE, 2012

CONFERENCES & WORKSHOPS

2016 CyberEye Kshitj, IIT Kharagpur 2017 PyCon New Delhi, India