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:// **Sidharth Sindhra**
facebook:// **sidharth.sindhra**
Medium:// **sidharth.sindhra**

COURSEWORK

GRADUATE
Computational Neuroscience
Genetic Algorithms
Data structure and algorithms
Natural Language Processing

UNDERGRADUATE
Programming and Data Structure
Proabability and Stochastics
Partial Differential Equations

MOOCS
Algorithms I and II
Machine Learning
Computer vision
Deep learning
Intro to Hadoop and Mapdreduce
Web Development in python

SKILLS

PROGRAMMING
Over 5000 lines:
Python • Matlab
Over 1000 lines:
C++ • Objective-C • lua • Javascript
Familiar:
LaTeX • Android • CUDA • MySQL

TOOLS
Platforms & Libararies
AWS • Google App Engine • Git
TensorFlow • torch • sklearn • NLTK

EXPERIENCE

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.
- Explored various tools and algorithms to best fit the problem solution.
- Responsible for developing the Text Classification Engine using Temporal Convolutional Neural Network.

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.

PROJECTS

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 488 times till date.

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