Harshit Agarwal

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EDUCATION

University of Illinois At Urbana Champaign

BS in Computer Science

Expected Dec 2017 | Urbana, IL GPA: 3.66/4.00 College of Engineering

MS in Computer Science

Expected Dec 2018 | Urbana, IL College of Engineering

Dean's List Fall 2016, Spring 2016 James Scholar Course Staff for Honors Intro to CS

COURSEWORK

Applied Machine Learning
Text Information Systems
Adv. Distributed Systems
Adv. Social and Information Networks
Computational Photography
Al for Autonomous Vehicles
Database Systems

FALL 2017 Machine Learning for Signal Processing

SKILLS

PROGRAMMING

Experienced:

Python • Java • C++ • Scala C • Matlab • SQL • MongoDB Familiar:

Shell • JavaScript • R • Go HTML • CSS • Haskell • MIPS Other Technologies: Kafka • Storm • Spark ElasticSearch • TensorFlow ScikitLearn • Avro • PCL • Mesos OpenCV • Akka

MISCELLANEOUS

Some people know me for my memes. I use my knowledge about emergent behaviors in online communities to explain memes. I've presented this at UIUC and at Salesforce and have gained fame on Reddit for the same.

EXPERIENCE

SALESFORCE.COM | DATA ENGINEERING INTERN

Intern on the Salesforce's Einstein Platform team. Building an updated data delivery and verification architecture for scoring results for leads processed by the platform's models. Also helped migrate data fetching for the platform onto Azkaban.

SALESFORCEIQ | SWE INTERN

Summer 2016

Summer 2017

Built Slack bots that enables users to run queries from within Slack and to get configurable push notifications for important updates. Also created SalesforcelQ's internal webhook architecture.

STATE FARM | SYSTEMS INTERN

Summer 2015

Built an in car gesture recognition system to detect distracted driving. Built using random forests and neural networks trained on collected point clouds and image data.

RESEARCH

CROWD DYNAMICS LAB AT UIUC

Worked with Professor Hari Sundaram to analyze and cluster the behavior evolution patterns in online communities using Gaussian HMMs and network analysis.

DISTRIBUTED PROTOCOLS RESEARCH GROUP

http://hagarwa3.web.engr.illinois.edu/gnuggies.pdf

Worked on GNuggies - a framework for hosting services on untrusted volunteer nodes. The goal was to make censorship impossible online by enabling large scale resource sharing. GNuggies features a novel trust mechanism and has high resilience guarantees.

PROJECTS

Al for Autonomous Vehicles

Spring 2017

Used Hough Transform and Inverse Perspective Mapping to detect lanes from live video in an autonomous car. Used basic motion strategy for planning lane changes. Partnership between UIUC and AutonomouStuff.

SEARCHOVERFLOW

May 2016

Used the StackOverflow data dump and ElasticSearch to create a search engine, and trained a keyword extraction algorithm to build smart queries.

Built using Python, ElasticSearch, Flask and Shell.

ACTIVITIES

ASSOCIATION OF DATA SCIENCE AND ANALYTICS | PRESIDENT Jan 2015 - Present | Urbana, IL

Worked on different data based projects every semester, including stock trend prediction and search relevance prediction. Have also organized sample projects and resources for workshops on Spark, databases, Python, basic machine learning and basic NLP. Organized the ADSA Data Summit, UIUC's first student run big data conference