

Harshit Agarwal

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN

BS in Computer Science

Expected May 2018 | Urbana, IL
GPA: 3.7/4.0

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
Systems Programming
Database Systems
Theory I (Algorithms)
Computational Photography
Distributed Systems
Social and Information Networks

SKILLS

PROGRAMMING

Experienced:

Python • Java • C++ • 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

EXPERIENCE

SALESFORCEIQ | SOFTWARE ENGINEERING INTERN

June 2016 - Present | Palo Alto, CA

- Built a SalesforceIQ bot for Slack, which enables users to get push notifications and make simple queries through Slack
- Made multiple additions to the existing API and built the architecture for SalesforceIQ's internal webhooks
- Worked on a range of dev-ops tools to improve internal Github and Jira integrations

STATE FARM | SYSTEMS INTERN

May 2015 - Aug 2015 | Urbana, IL

- Built an in car gesture recognition system to detect distracted driving using computer vision, working with a point cloud capturing device
- Created a customer retention model by using topic modeling on Twitter data and combining it with a logistic regression model to predict customer attrition

RESEARCH

CROWD DYNAMICS LAB AT UIUC | UNDERGRAD RESEARCHER

August 2015 - May 2016 | Urbana, IL

Worked with Professor Hari Sundaram to analyze the evolution of a person's behavior in different communities. Using Gaussian HMMs and network analysis to cluster behavior change patterns observed in research and in Internet communities such as Stack Exchange.

PROJECTS

SELF DRIVING RC CAR | ARDUINO AND OPENCV POWERED CAR

October 2015 | github.com/hagarwa3/self_driving_rc_car

An Arduino powered car that can navigate a simple track and detect objects, navigated via an attached camera and RaspberryPi. Also includes a proper streaming setup to view the car's decisions in a browser as they happen and control it remotely. Built with Python, OpenCV, ScikitLearn and Arduino

TRUMPBOT | MARKOV CHAIN CHATBOT

March 2016 | harshit.xyz/chatbot

A conversational Markov chain chat bot that can be trained on any corpus of text. Trained it on transcripts of Donald Trump's speeches, and deployed it through Twilio and a web app. Built using Python, Flask and Twilio

SEARCHOVERFLOW | SMART SEARCH ENGINE FOR STACK OVERFLOW DATA

May 2016 | github.com/hagarwa3/stackoverflow-search

Used the StackOverflow data dump and ElasticSearch to create a search engine, and trained a keyword extraction algorithm to build smart queries. Also used the indexed data to gather insights regarding people's question on StackOverflow. Built using Python, ElasticSearch, Flask and Shell

ACTIVITIES

ASSOCIATION OF DATA SCIENCE AND ANALYTICS | PRESIDENT

Jan 2015 - Present | Urbana, IL

- Work on a different data based project every semester. Past projects have included stock trend prediction and search relevance prediction
- 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