

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
James Scholar

LINKS

harshit.xyz
github.com/hagarwa3
linkedin.com/in/hagarwa3

COURSEWORK

Applied Machine Learning
Text Information Systems
Systems Programming
Database Systems
Algorithms
Computational Photography
Computer Architecture
Linear Algebra
Statistics and Probability
Fall 2016
Social and Information Networks
Distributed Systems

SKILLS

PROGRAMMING

Experienced:

Python • Java • C++ • C
Matlab • MIPS • SQL • MongoDB

Familiar:

Shell • JavaScript • R
HTML • CSS

Other Technologies:

Kafka • Storm • Spark
ElasticSearch

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 integration related additions to the existing API and built the architecture for SalesforceIQ's internal webhooks
- Worked on multiple 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

FORWARD Lab at UIUC | UNDERGRAD RESEARCHER

August 2015 - May 2016 | Urbana, IL

Worked with Kevin C. Chang to create a context aware web mining tool to better identify and classify relevant data on unstructured web pages and to group together potentially related data such as contact details

PROJECTS

ML-Party | QUALCOMM PRIZE AT BOILERMAKE 2015

October 2015 | github.com/hagarwa3/ml-party

- A basic machine learning library in Python, built using only Numpy. Implemented KNN, Naïve Bayesian classifier, linear regression and Logistic regression and obtained results remarkably similar to scikit-learn. Built entirely in **Python**

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 | A SMART SEARCH ENGINE FOR STACK OVERFLOW

March 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 | PROJECTS COMMITTEE

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