

## ANKIT RAJSHREE

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### PROFILE SUMMARY

Graduate Computer Engineering (Computer Systems) student with 3 years of industry experience in Software Development and current academics/projects focused on Data/Text Mining, Machine Learning, NLP and KR.

### TECHNICAL SKILLS

- **Programming Languages and Big Data:** C/C++, Java, JavaScript, HTML5, Unix Shell Scripting, MATLAB, Python, TensorFlow, PyTorch, R, Apache Hadoop, Apache Spark,
- **Operating System and Databases:** Windows 10, RHEL 7.1, JBoss Server 6.4, OracleSQL, PostgreSQL, MongoDB, Cassandra.
- **Concepts/Machine Learning/NLP:** Classical Machine Learning Techniques/Algorithms, Deep Learning, Reinforcement Learning, Classical NLP approaches.

### EDUCATION

**Masters in Science in Computer Engineering, Arizona State University, GPA 3.94/4.00** **May 2019**

**Relevant Courses:** Statistical Machine Learning, Algorithms Design, Random, NLP, Data Mining, Distributed Database Systems

**Bachelor of Technology in Electrical & Electronics Engineering, NIT Hamirpur, GPA: 8.54/10** **May 2014**

### MOOC's/Certification

- Deep Learning, 5-course specialization by deeplearning.ai on Coursera **June 2018**
- Extending Hadoop for Data Science: Streaming, Spark, Storm, and Kafka **June 2018**
- The Data Scientist's Toolbox by Johns Hopkins University on Coursera **Jan 2018**

### EXPERIENCE

#### COGNITIVE INFORMATION PROCESSING SYSTEMS LAB, ASU

##### Graduate Research Aide

**Feb 2018 – Present**

- Working on concept generalized Chatbot application build on Encoder Decoder model for automatic concept generation from the stored corpus. The Chatbot application to engage with the twitter communities.
- Working tweet analysis for pro and anti-tweet classification based on a pre-trained classifier from the data collected and preprocessed from social media. Experimenting with Deep Learning and classical ML techniques.

#### ARICENT TECHNOLOGIES, Gurgaon, India

##### Senior Software Engineer, Hughes Network System (HNS)

**Jan 2015 – Jul 2017**

- Design analysis and implementation/enhancement of OSS/BSS for Hughes Network System
- Involved in the entire release cycle from development to testing. Achieved CSAT of 5/5 for two consecutive financial years.
- Development in Java on SOA principles with the end systems.
- Developed custom Data Manager in C for new Business Unit to be launched in Columbia with a customer base of 25,000.

##### Software Engineer Trainee, Nalanda-Aricent

**Oct 2014 – Dec 2014**

- Designed and implemented C-ADT in C language. Implemented a multilevel hashing for dictionary applications.

### PROJECTS

**Course Project, Natural Language Processing CSE 576, ASU, Instructor: Prof. Chitta Baral.** **Spring 2018**

- Clinical Notes (Electronic Health Record) segmentation using Deep Learning Models [CNN, biRNN and LSTM] on MIMIC-III and i2b2 dataset.
- Trained a Deep Learning Model with pre-trained word embeddings to get the document vector and compared performance without using any pretrained word embeddings.

**Course Project, Distributed Database System CSE 512, ASU, Instructor: Prof. Mohamed Sarwat.**

**Spring 2018**

- Geospatial data analysis on a multi -cluster Hadoop file System using Apache Spark and GeoSpark on NYC taxi trip dataset for hotspot detection.

**Course Project, Data Mining CSE 571, ASU, Instructor: Prof. Ayan Banerjee.**

**Spring 2018**

- American Sign Language(ASL) sign language prediction using pre- generated data and machine learning techniques. Development to be done in MATLAB, Data collection/generation/Feature Selections in progress.

**Hackathon, Hack Arizona, MLH Season 18, University of Arizona**

**Jan 2018**

- Developed an Amazon Alexa skill for job search/seekers, automating the complete job search.
- Developed in python, hosted on AWS Lambda.

**Course Project, Statistical Machine Learning CSE 575, ASU, Instructor: Prof. Hanghang Tong.**

**Fall 2017**

- Question-answer tagging and long-term value prediction of question/answer in Community Question and Answer (CQA) sites (e.g. Stack Overflow, Quora) in Python/Scikit Learn/Numpy/Pandas.