

# VARUN CHAUDHARY

Tempe, Arizona

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## EDUCATION

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**Master of Science in Computer Science**

May 2021

Arizona State University

**Bachelor of Technology in Computer Science & Engineering**

July 2018

Manipal University Jaipur

GPA: 8.79 (out of 10)

## TECHNICAL STRENGTHS

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**Languages** Java, Python, Scala, MySQL, Impala

**Technologies** Spark, Kafka, Kudu, numpy, scikit-learn, opencv, MS SQL Server, Dropwizard, Git, L<sup>A</sup>T<sub>E</sub>X

## WORK EXPERIENCE

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**Software Engineer(Big Data)**

Jan '18 - April '19

*Infoobjects Inc.*

[STATUS: In Production]

- Designed & developed a real-time framework in Scala to support ETL work-flows from database designing to external deliverable - Monthly statistical reports & generating customer emails.
- Developed real-time APIs in Java for formulating and delivering promotional emails using dropwizard;
- Successfully increased pipeline robustness by handling point of failures and deploying an alarm system; increased pipeline efficiency using parallel processing and bit manipulation to reduce execution times.

**Software Engineering Intern**

Jan - Aug '17

*Tata Consultancy Services*

- Created a sentiment analysis model using live twitter data on demonetization in India(recent event in time) that successfully derived overall sentiment & popular phrases as insights.
- Implemented sentiment scoring & phrase popularity in python on tweets stored in Apache hive(via Apache flume).

## ACADEMIC PROJECTS & ACHIEVEMENTS

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**Feature extraction and similarity measure detection on 11K hands dataset**

Sep '19

- Descriptive analysis of extraction methods like LBP,HOG,Color Moments & SIFT; comparison with similar images using EMD, euclidean , hamming distances using OpenCV in python.

**Codechef certification for proficiency in data structures & algorithms**

Mar '18

**Event sequence prediction of medical events**

Nov '17

- Successfully mapped each diagnosis-id of 1500 patients' medical record history over 2 years into a unique integer sequence & trained on a LSTM network in python to predict next possible medical conditions.

**Traffic Signal simulation mini-game**

Nov '16

- Created a user-controlled traffic light game; user with maximum time without declared as winner.

**Army regiment database system**

May '16

- Developed a mySQL database with user-interface using advanced Java to search, manipulate and process data.