

# VARUN CHAUDHARY

Tempe, Arizona

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## CAREER OBJECTIVE

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I identify as a learner with over an year of industry experience and looking forward to development roles in the domains of data analytics, intelligent systems and software engineering.

## EDUCATION

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**Master of Science in Computer Science** May '21  
Arizona State University

**Bachelor of Technology in Computer Science & Engineering** July '18  
Manipal University Jaipur GPA: 8.79 (out of 10)

## TECHNICAL STRENGTHS

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<b>Languages</b>	Java, Python, Scala, MySQL, Impala, L <sup>A</sup> T <sub>E</sub> X, *nix shell scripting
<b>Technologies</b>	Spark,Kafka,Kudu,numpy,scikit-learn,OpenCV,MS SQL Server,Dropwizard,Git
<b>Tools</b>	Jupyter-notebook, IntelliJ, Pycharm, Git bash, Flask

## WORK EXPERIENCE

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**Software Engineer(Big Data)** Jan '18 - Apr '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 data-driven 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 and 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.
- Established sentiment scoring & phrase popularity in python on tweets stored in Apache hive(via Apache flume).

## SELECTED PROJECTS & CERTIFICATION

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**Feature extraction, similarity and labelling on 11K hands dataset** Sep '19

- Descriptive analysis of extraction methods like LBP,HOG,Color Moments & SIFT to search for similar images for given queries.
- Implemented dimension reduction techniques- PCA, SVD, NMF and LDA. Used the new latent space for labelling images, rectifying labelled images and forming similarity matrix.

**Pacman Project- UC Berkeley** Sep '19

- Implemented various search techniques and reinforcement learning mechanism to decide the optimal goal path for pacman in a multi-agent environment(private Github repository for distribution privacy).

**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.

**Codechef certification for proficiency in data structures & algorithms** Mar '18