VARUN CHAUDHARY

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EDUCATION

Master of Science in Computer Science	**May 2021**
Arizona State University	GPA: 3.89
Bachelor of Technology in Computer Science & Engineering	**July 2018**
Manipal University Jaipur	GPA: 3.72

SKILLS

Languages	Java, Python, Scala, MySQL, LaTeX, *nix shell scripting, R
Libraries	pandas, numpy, scikit-learn, opencv, spark-streaming, nltk, tensorflow
Tools	Git, MS SQL, Dropwizard, Jupyter-notebook, IntelliJ, Pycharm
Big-data Stack	Hadoop, Spark, MapReduce, Kafka, Kudu, Hive, Impala, HDFS, YARN
ML Techniques	Logistic Regression,Decision Trees,Naive-Bayes, SVM, KNN, Neural Networks
	DBSCAN, K-Means, PPR, Linear Regression, PCA, SVD, NMF, LDA
CV Techniques	Color Moments, Local Binary Patterns, Histogram of Gradients, SIFT

WORK EXPERIENCE

Software Engineer (Big Data), *Infoobjects Inc.* Jan '18 - Apr '19

- Designed two real-time ETL frameworks and APIs to process and store GBs of data within a second.
- Increased robustness by handling point of failures and reduced downtime by 15% via alarm system.
- Actively presented and participated in the "Big-data Club" to share technologies among project teams.

Software Engineering Intern, *Tata Consultancy Services* Jun - Aug '17

- Created a real-time sentiment analysis model using tweets on a social issue.
- Analysed change in public opinion over an year via sentiment scoring and phrase popularity for insights.

PROJECTS

Social media analysis for educational policies Sep '19 - *present*

- Monitoring public opinion in Arizona on twitter for ongoing protests and policies during RedForEdAZ.

Bio-metric identification on 11K hands data set Sep '19

- Implemented feature extraction models and LSH for CBIR and user-based relevance-feedback.
- Accurately predicted labels using personalized page rank (92%), SVM (90%) and decision tree (89%).

Meal classification on CGM-diabetes data set Sep '19

- Predicted time-series glucose data using classifiers and supervised clustering with 75% accuracy.

Digit recognition using tensorflow Nov '19

- Successfully identified digits from hand-drawn images with an accuracy of 97% using CNN.

Event sequence prediction of medical events Nov '17

- Trained an LSTM network over 2-year medical record history of 1500 patients.
- Successfully predicted future medical conditions of patients with an accuracy of 87%.

ACTIVITIES

- Codechef certification for Data Structures & Algorithms • Teaching Assistant-Business Data Mining
- Literary Society President • Volunteered at Gramiksha NGO • Competitive Table Tennis player