

# MD ARIF

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## EDUCATION

<b>Stony Brook University</b>	<b>Master of Science, Computer Science</b>	<b>New York, USA</b>
<b>GPA: 3.79/4</b> Coursework: Algorithms, Computer Vision, Machine Learning, Data Science		Dec, 2020 (Expected)
<b>Indian Institute of Technology</b>	<b>Bachelor of Technology, Electrical Engineering</b>	<b>Guwahati, India</b>
Coursework: Pattern Recognition & Machine Learning, Computer Vision, Parallel Computing		May, 2016

## PROGRAMMING SKILLS

<b>Languages:</b>	Java(5 years), Python(3 years), SQL(3 years), JavaScript, C, HTML/CSS, XML, JSON, Ajax
<b>Framework:</b>	Spring Boot, jQuery, AngularJS, NodeJS
<b>Softwares &amp; Tools:</b>	MySQL, PHP, Git, REST, Microservices, Docker, Jenkins, RabbitMQ, Agile scrum, Jira, Hive
<b>Machine Learning:</b>	Scikit-learn, Pytorch, TensorFlow, OpenCV, Tableau

## PROFESSIONAL EXPERIENCE

<b>OLA Cabs Pvt Ltd</b>	<b>Bengaluru, India</b>
India's largest ride share application for transportation, integrates transportation for customers and driver partners	
<b>Senior Data Scientist   Program Manager - BI Lead</b>	Apr'18 - Jul'19
Credit Underwriting: OLA Financial Services (PostPaid, E-Payments)	
◦ Developed credit underwriting models in Python using Random Forest and XGBoost algorithm leading to a 70% reduction in loss rate and annual savings of about \$8 million	
◦ Developed LightGBM script in Python to determine fraud and student accounts to control VAR while underwriting through the exclusion of risky customers based on Ola rides data and external bureau features	
<b>Software Engineer I</b>	Apr'17 - Mar'18
ML Engineer @ OLA Loyalty Team   Customer Churn Prediction (SQL, Jupyter, R, Loyalty)	
◦ Deployed an automated decision tree module in Python for predicting churn pattern and identifying significant drivers of customer loyalty, one of the three team members of first of its kind subscription program in India: Ola Select	
<b>Decision Scientist</b>	Jul'16 - Mar'17
Analytics   Price Elasticity Model (Python, Automation, Subscription Model)	
◦ Performed feature engineering on consumer purchase behavior and developed price elasticity model in Python, leading profitable business and financial growth of 80%	
◦ Evolved the Subscription product with out of the box thinking and implementation over time to improve the P&L, increase the repeat trend by 60%, contributed to 10% of daily platform rides	

## PROJECTS

- **Convolutional Neural Network (Deep Learning | Pytorch | TensorFlow | OpenCV ):** Developed CNN script from scratch, an end-to-end learning in which a highly non-linear representation is learned for our data to maximize 16-way image classification, highest accuracy observed 85% with fine tuning of Alex Net
- **Scene Classification and Object Recognition using SVM (Google Colab | OpenCV ):** Created Bag of SIFT feature representation of the images using KMeans Clustering and Histogram of gradients, trained SVM classifier.
- **Product Promotion and Warehouse Stocking (Data Science | Numpy | Scikit)** Performed EDA and modeling in python to predict house prices using gradient boosting, ranked among top 30% on Kaggle
- **IEEE- CIS Fraud Detection (Jupyter | Numpy | Scikit ):** Kaggle Challenge, developed scripts for Logistic Regression and XGBoost classifier on a large e- commerce dataset to predict fraud transactions, precision up to 96%
- **Offline Signature Verification:** Developed scripts for GMM to improve performance of offline signature verification, laying particular emphasis on turns and boundaries of the signature, matching up to 97% for random forgeries
- **Cloud Computing, Summer Internship'2014:** Automated deployment of Cloud Computing and Virtualization on RedHat Linux System Using Python Programming

## ADDITIONAL EXPERIENCE & AWARDS

- **Teaching Assistant at Stony Brook University** for the course Introduction to Object Oriented Programming
- **Top Achiever Award, OLA Cabs (2018) | Exceeds Expectation Award, OLA Cabs (2017):** For playing a pivotal role in the business intelligence of the new loyalty and payments team at Ola
- **Website Maintenance:** Responsible for hosting events on Cepstrum ( IITG-EEE Students Forum) using WordPress
- Editor-In-Chief of IITG EEE Magazine(InPhase)
- Summer Research Internship (NTHU, Taiwan, 2015): Awarded for Best Internship Paper Presentation