

MD ARIF

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EDUCATION

Stony Brook University, New York, USA

Aug 2019 – Dec 2020*

- M.S. in Computer Science
- Coursework: Algorithms, Computer Vision, Machine Learning, Data Science, Big Data, Programming Languages

GPA: 3.79/4

Indian Institute of Technology, Guwahati, India

Jul 2012 – May 2016

- Bachelor of Technology in Electrical and Electronics Engineering
- Coursework: Data Structures & Algorithms, Computer Vision, Machine Learning, Parallel Computing, Probability

LANGUAGES AND TECHNOLOGIES

- **Language:** Java(5 years), Python(3 years), SQL(3 years), JavaScript, C, HTML/CSS, XML, JSON, Ajax
- **Database:** MySQL, Oracle DB, MongoDB
- **Framework:** Spring Boot, jQuery, EmberJS, AngularJS
- **Technology:** Jenkins, Docker, RabbitMQ, Git, Jira, Confluence, REST, Microservices, Gradle, WordPress
- **Machine Learning:** Scikit-learn, PyTorch, TensorFlow, OpenCV, Tableau

EMPLOYMENT

OLA Cabs Pvt Ltd, Bengaluru, India

Senior Data Scientist | Program Manager - BI Lead

Apr 2018 – Jul 2019

Credit Underwriting: 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

Software Engineer 1

Apr 2017 – Mar 2018

ML Engineer @ OLA Loyalty Team | Customer Churn Prediction (SQL, Python)

- 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

Decision Scientist

Jul 2016 – Mar 2017

Analytics | Price Elasticity Model (Python, Automation, Subscription Model)

- Conceptualized 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

LinuxWorld Pvt Ltd, Jaipur, India

May 2014 – Jun 2014

Software Engineering Intern

- Automated deployment of Cloud Computing and Virtualization on RedHat Linux System Using Java Programming

OTHER TECHNICAL EXPERIENCE

- **Convolutional Neural Network (Deep Learning | Pytorch | TensorFlow | OpenCV):** Developed CNN script from scratch, an end-to-end deep 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 (Computer Vision):** Created Bag of SIFT feature representation of the images using KMeans Clustering and Histogram of gradients, accuracy observed 75% with SVM
- **IEEE- CIS Fraud Detection (Data Science):** 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 (ML):** 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

ADDITIONAL EXPERIENCE AND 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 Cabs
- **Summer Research Internship (NTHU, Taiwan, 2015):** Awarded for Best Internship Paper Presentation