MD ARIF

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EDUCATION

Stony Brook University, New York, USA   **Aug 2019 – Dec 2020***
- Master of Science in Computer Science   **GPA: 3.79/4**
- Coursework: Algorithms, Computer Vision, ML, Data Science, Operating System, Prog. Language, Theory of Database
- Graduate Teaching Assistant (Feb'20-May'20) for the course Introduction to Computer Vision
- Graduate Teaching Assistant (Sep'19-Dec'19) for the course Introduction to Object Oriented Programming in Java

Indian Institute of Technology, Guwahati, India   **Jul 2012 – May 2016**
- Bachelor of Technology in Electrical and Electronics Engineering
- Coursework: Data Structures, Computer Vision, Pattern Recognition & Machine Learning, Parallel Computing

LANGUAGES AND TECHNOLOGIES

- **Language:** Java (5 years), Python (3 years), SQL (3 years), JavaScript, C, R, MATLAB, HTML/CSS, XML, JSON, Ajax
- **Framework & Database:** Spring Boot, jQuery, EmberJS, AngularJS, ExtJS, MySQL, Oracle DB, MongoDB, Redis
- **Technology:** Agile scrum, IntelliJ, Jenkins, Docker, RabbitMQ, Git, Jira, Confluence, REST, Microservices, Gradle
- **Machine Learning & Other:** Scikit-learn, PyTorch, TensorFlow, OpenCV, Kafka, Spark, Hadoop, Linux, Windows

EMPLOYMENT

OLA Cabs Pvt Ltd, Bengaluru, India

Machine Learning Engineer | Technical Program Manager   **Apr 2018 – Jul 2019**
- 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**
- Built Microservice architecture and developed RESTful API using Spring Boot Framework (Java) to integrate Subscription package with cabs app, designed and developed the persistence layer in hibernate to store data in MySQL
- One of the three team members of first of its kind subscription program in Indian Cab Ecosystem: www.olacabs.com/olaSelect
- Increased the customer retention rate by 60% and contributed to 10% of daily platform rides

Decision Scientist   **Jul 2016 – Mar 2017**
- Achieved financial growth of 80% by identifying significant drivers of customer loyalty by developing price elasticity model in Python using feature engineering on consumer purchase behavior for OLA Pass product

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

PROJECTS

- **MyKart- An Ecommerce Fashion Website**   **(Spring Boot, AngularJS, RabbitMQ, MongoDB, Redis)**
- Devised and developed an Ecommerce website with features - product view, cart population and check-out, administrator interface and notifications for item deficit. Used F5 load balancer to balance the incoming requests
- **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

- **Top Achiever Award, OLA Cabs (2018) | Exceeds Expectation Award, OLA Cabs (2017):** For playing a pivotal role in the business intelligence of the new initiative products in the new loyalty and payments team at OLA Cabs
- **Summer Research Internship (NTHU, Taiwan, May'2015 – Jul'2015):** Awarded for Best Internship Paper Presentation