

APOORV UPADHYE

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[LinkedIn Profile](#)

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C/C++, JavaScript
- **Frameworks and Tools:** Agile, SpringBoot, Hibernate, OpenCV, Git, TensorFlow, Grafana, Numpy, Scikit, Matplotlib
- **Database engines:** MySQL, Redis, Hbase, Neo4j

EDUCATION

Boston University, Master's Degree, 4.0 GPA

Master of Science, Computer Science

Boston, Massachusetts, USA

Sep 2021

Netaji Subhas Institute of Technology, Delhi University, Bachelor's Degree

Bachelor of Engineering, Instrumentation and Control Engineering

New Delhi, India

2012-2016

WORK EXPERIENCE

MakeMyTrip Pvt Ltd.

Senior Software Developer 2

Gurgaon, Haryana, India

Jun 2018 - Aug 2021

- **Fraud Detection System**
 - Created a Fraud Detection system to find frauds on the Makemytrip website. Used *Random forest algorithm* to identify any abnormal values of the user's attributes. We also used the *Spark graph library* to create a user network based on device, card, email, etc., which helped us to identify any fraudster.
 - We used *neo4j* to query data in real-time. Also tried multiple graph algorithms like *Spectral clustering*, *K means clustering*, *Louvain algorithm* to increase the precision.
- **Multi-Currency Project**
 - Designed and implemented a multi-currency project majorly focused on gulf countries. Managed a team of 5 people while serving as the main backend layer for about 7 teams.
- **Gateway Traffic Optimization System**
 - Developed a gateway traffic optimization system to improve the success rate of transactions on Payment Page. Used various statistical data tools to improve the success rate of our aggregator to 83.4%. Used *TSDb* to store real time data and calculate recent historical aggregate of Payment Gateways to calculate a formula that helped us save almost 6 million Rupees yearly in revenue.
- **ICICI Cobrand Cards**
 - Managed and developed Cobrand project to handle 1 million customer cards. Used *SpringBoot*, *Guava* and *Hibernate* to create a project and optimized the handling of cards using *Redis*. Parallely ran old and new system by researching on systems to compare data for both and then implementing *JaVers*.
- **MakeMyTrip Payments system Revamp**
 - Worked as a close-knit team to revamp the entire module of our publicly exposed system to improve the module structure and also involved Goibibo-partner company to be integrated to our system.

Zillious Solutions India Pvt. Ltd.

Software Development Engineer

New Delhi, India

Jul 2016 - June 2018

- Managed and developed the Insurance and Bus travel systems in the B2B travel portal, which served as a portal to 70 companies.
- Worked on WebScraping and worked as Full-Stack development using Java, JavaScript, Python
- Integrated RedBus Webservice and AMEX/ICICI Webservices for a portal using RESTful and SOAP Webservices

PROJECTS

Predicting Values of Cryptocurrencies using Machine Learning

Master's Course Project

Boston, Massachusetts, USA

October 2021 - December 2021

- Quantifying cryptocurrency tokens into different categories and predicting the future outcome of the cryptocurrency values.
- Used various machine learning models such as *Support Vector Machines*, *Naive Bayes*, *xGBoost*, *Decision Trees*. to evaluate the results.
- Data mining of various financial parameters that helped to tune the hyperparameters to get a better outcome.

Continuous Glucose Monitoring signal Denoising using filter

Bachelor's Netaji Subhas Institute of Technology

New Delhi, India

Jan 2016 - June 2016

- As GSM(glucose monitoring signal) informs us about the glucose percentage in a human body, which helps to detect diabetes, GSM needs to be filtered to get a better idea about which person can have diabetes in the future.
- To filter the signal received, we explored algorithms, such as Particle Swarm Optimization and genetic algorithms. Our results were driven using a multi-paradigm programming language MATLAB.

ACTIVITIES AND AWARDS

- Received the best performer award for the launch of MakeMyTrip GCC domain.
- 99.66 Percentile in All India Engineering Entrance Examination out of 15 lakh students.
- Co-Head of the team of NAKSHATRA, Astronomy Club of NSIT. Designed posters for the team, conducted group sessions, organised and managed 10+ events.
- Managed 5+ college level events under IEEE NSIT; Mentored JAVA SIG; Managed membership drive and Served as Joint-Secretary, IEEE NSIT during 2013-14