

Education

2018-2021(Exp)	Rochester Institute of Technology, NY, USA, Master's Computer Science CGPA: 3.81/4
2014-2018	Manipal Institute of Technology, Manipal, India, Bachelor of Technology (Information Technology) CGPA: 8.29/10

Work Experience

Aug '19 – Dec '19	Trimble Inc. Victor, NY <i>Software Engineer Intern Fall Co-op</i> <ul style="list-style-type: none">• Researched on ESRI's ArcGis GeoEvent Server and implemented a POC for automating and making the process of conversion of 811 Dig tickets to work-orders independent of original message format (JSON/XML/CSV) and sending the work-orders to Trimble Unity REST Endpoint.• Integration of GainsightPX and Salesforce instance: fetch Trimble Unity KPIs like usage statistics, NPS• Stress testing with NeoLoad and Datadog Synthetics.• Tech stack: AWS EC2 Servers, Python, JS, Node.js, Bash, Visual Scripting on Esri's GeoEvent Server, Apex, Visualforce Controllers, NeoLoad, Datadog.
May '17 – July '17	Apollo Munich Health Insurance Gurgaon, India <i>Data Science Intern Summer Internship</i> <ul style="list-style-type: none">• Implemented a fraudulent health insurance claim prediction model using Python. Created an ensemble of Random Forest, Gradient Boosting and XGBoost.• Implemented a GUI to fetch tweets and give public sentiment analysis for a given company name.• Libraries used - Sklearn, imblearn, XGBoost, Seaborn, Tweepy, TextBlob, NLTK, Wordcloud, PyQt

Technical Skills

- **Programming:** *Python, Java, C++, JavaScript, Apex (Salesforce)*
 - **Database:** *MySQL, PostgreSQL, MongoDB*
 - **Frameworks:** *ROS, JDBC, Gradle, Tensorflow, PyTorch, Node.JS, Express.JS*
 - **Concepts:** *Localization (Kalman, Particle), Mapping, OOP, RMI, TCP/UDP, Multithreading*
 - **Cloud:** *AWS: EC2, DynamoDB, S3, VPC*
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Projects

Feb'20 – April '20	Handwritten Math Expression: Segmentation + Classification Rochester, NY <i>Preprocessing, Feature Engineering, Graph based segmentation</i> <ul style="list-style-type: none">• Worked on CROHME data set to segment mathematical expressions and classify symbols.• Implemented a pipeline for multithreaded preprocessing and feature extraction, an MST as the segmentation model, and random forest for classification.
Feb'20 – Feb '20	Automated Canonical Cover Computation and 3NF Decomposition Rochester, NY <i>Relational Database, Big Data</i> <ul style="list-style-type: none">• Given a relation, find the Functional Dependencies using Naïve approach, compute candidate keys, and then finally canonical cover and the 3NF decomposition.• Implemented a Gradle project using JDBC framework, and MySQL.
Aug'18 – Aug '18	Synchronized Producer Consumer across Different Servers Rochester, NY <i>Java, Multithreading, Socket programming</i> <ul style="list-style-type: none">• The objective is to run producer, consumer, and the storage program on different servers, and synchronize all the interactions among them using Semaphores to prevent deadlock.
Jan'18 – May '18	Lung Cancer Detection using Deep Learning, 3D CNN Manipal, India <i>TensorFlow, Data augmentation</i> <ul style="list-style-type: none">• Developed an algorithm using 3D CNN with an ensemble of different activation functions and data augmentation to determine when lesions in the lungs are cancerous.• Data set: High-resolution CT Scans of lungs provided by Kaggle.
Aug'16 – Nov '16	Movie Recommendation using Collaborative Filtering Manipal, India <i>Hadoop MapReduce, Sentiment Analysis</i> <ul style="list-style-type: none">• To recommend movies using Collaborative filtering and sentiment analysis incorporated with MapReduce.• Implemented mapper and reducer classes and performed sentiment analysis on movie reviews, computed Tanimoto co-efficient for item-based filtering.

Research

Dec '17	Bagging and Boosting with Equivalent Space Consumption Manipal, India <i>Scopus Author</i> <ul style="list-style-type: none">• Implemented and compared the various trade-offs between Bagging and Boosting Algorithms under different conditions. Publication Journal of Advanced Research in Dynamical and Control Systems
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