

RISHABH SAHLOT

Rochester, NY-14623 | +1 585 434 8098 | rs3655@rit.edu | www.linkedin.com/in/rishabh-sahlot | <https://rishabhsahlot.github.io> (Built in React for desktop purposes)

EDUCATION

Rochester Institute of Technology, Rochester, USA | Master in Computer Science | 3.8/4.0 2019-Present
Relevant Courses: Comp Science Theory, Advanced Object-Oriented Programming Concepts, Foundations of Algorithms, Introduction to Big Data, Big Data Analytics, Foundations of Computer Vision, Advanced Cloud Computing, Deep Learning Security, Web Services & Service Oriented Computing.

University of Mumbai, Mumbai, India | Bachelor of Engineering in Computer Engineering | 7.14/10 | 2015-2019
Relevant Courses: Data Structures, Database Management Systems, Operating Systems, Computer Networks, Web Technologies Lab, System Programming & Compiler Construction, Distributed Databases, Digital Signal Processing, Cryptography & System Security, Data Warehouse & Mining, Parallel & Distributed Systems, Machine Learning, Cloud Computing Lab.

PROFESSIONAL EXPERIENCE

Edelweiss | Data Analysis Intern (Python, numpy, pandas, matplotlib, sklearn, scipy, beautifulsoup, MS SQL Server) June 2018- July 2018

- Collected snapshot & erroneous raw transactional data from the B2B2C – FPD (Financial Product Distribution Division) division of Edelweiss, as well as from mutual funds & loan based national surveys & utilized web scraping to get names of registered brokers for mutual funds. The web scraping code was later adopted by the company to replace days of manual collection & combining of region-based tables by a few minutes of automation.
- Processed data, pointed out faulty/ incomplete company data for corrections.
- Conducted Explorative Data Analysis & found meaningful & interesting insights in various Analytics Opportunity categories such as Sub-Broker & Customer Acquisition, Sub-Broker and Customer Retention, New Services/Financial Products, Cross-Sell & Up-Sell, Competitor Analysis.
- Utilized Machine Learning techniques like Clustering & Association Mining, for Sub broker & Customer Segmentations & systematic Lead generation.

Mukesoft IT Consultants | Android Developer Intern (Android Studio, XML, PHP, Firebase CM & Google APIs.) June 2017-August 2017

- Researched location tracking apps and then developed an android application for tracking connected people, which had an SOS feature and a feature that sent alerts in case a connected person was in vicinity.
- Assisted colleagues in the android and web development projects that were assigned to them.

PROJECTS [Github link](#)

Password Guessing using Contrastive Predictive Coding (Python, Pytorch, pandas, matplotlib, Google Collab) Jan 2021-May 2021

- Analyzed passwords from the leaked passwords (Rock You).
- Implemented a novel method for password guessing attacks from using a Representation Learning Approach- Contrastive Predictive Coding.

Time-Aware Sparsity Tolerant Web Service Recommendation (Python, numpy, PostgreSQL, Flask) Jan 2021-May 2021

- Co-Implemented the same paper as the title in python from scratch, with PostgreSQL database.
- Utilized modified hybrid collaborative filtering to handle sparse user-item matrix to predict Quality of Service values for web services and used Multiple Criteria Decision-Making techniques to rank web services.
- Added an additional Flask front end for a demo.

Web Service Assignment Mini-Projects (Node.js, React.js, REST & SOAP Services, WSDL, Django, , Postman) Jan 2021-May 2021

- Implemented a client-server app for agricultural recommendations, where the Node.js & express.js based local server serving processed info from SOAP and REST APIs, & the React.js based client displaying information fetched from the local sever.
- Implemented a client server apps for database querying, where Django based server that preprocessed the data and inserted into the MongoDB database and a React.js based client which queried instances from the server based on multiple criteria and displayed them

Cloud Security (DDOS) Model for DBaaS (Mongo DB Atlas, Amazon RDS, Python, numpy, matplotlib, scikit-learn) Aug 2020-Dec 2020

- Studied log data of DBaaS such as Mongo DB Atlas & Amazon RDS,
- Simulated an offline DDOS attack & created a python-based middleware to used log data from those simulations to do streaming training & detection models for DDOS attacks.
- Studied privacy infraction, and data requirements for detection their models.

AGE GAN (Python, Numpy, Pytorch, DLIB Face Vectors) Jan 2020-May 2020

- Implemented an Identity Preserving Age Editing System using Conditional Generative Adversarial Networks & DLIB Face Vector.

Text-to-Image Generation (Python, Numpy, Pytorch, DLIB Face Vectors, Flask) Aug 2018-April 2019

- Implemented a model for generating realistic images just based on descriptive text input using Python.
- Made use of Natural Language Processing (for text feature extraction), Convolutional Neural Networks (for Image Processing part) & Generative Adversarial Networks.

M-Share (like Sound cloud) (Python, Django) Aug 2017-Dec 2017

- Developed a user-account based website for uploading personal music and viewing other's music using python's Django framework, SQLite & the standard web stack.
- Provided services like Gmail Authentication for account registration & Slugs for hiding user information in address.

TECHNOLOGICAL SKILLS

Programming Languages: Java, Python, C++, JavaScript, MATLAB, PHP, HTML, XML, CSS, MySQL, MongoDB, PostgreSQL, Cypher (Recently Learned),

Frameworks/ ML Libraries: Bootstrap, Django, Flask, Node.js, React.js, Spring-Boot (Recently Learned),

ML Libraries: numpy, pandas, matplotlib, scikit-learn, tensorflow, Pytorch (with cuda), opencv, gensim

Tools: Visual Studio Code, PyCharm, JetBrains, Android Studio, Tableau, Docker, Github, Gradle.

EXTRA-CURRICULAR

- Represented RIT at ACM-ICPC regional qualifier 2019 & 2020 (which was held in 2021).
- Participated in many competitive coding contests on websites such as Codechef(5 star rating at peak), Hackerrank, Hackerearth, codeforces.
- Received silver & bronze medals in a few Hackerrank competitions, & high ranks in District level inter-college competitions).
- Won 3rd prize in Techgig Sponsored 'Code-Uncode' out of more than 100's of competitors throughout Mumbai.
- Participated in Hackathon's like Big Red Hacks 2019, Codeshastra (conducted by college) 2018, Deep Blue 2018, Smart India Hackathon 2018, ZS Associates Data challenge 2018.