RISHABH SAHLOT

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EDUCATION

***Rochester Institute of Technology, Rochester, USA** | Master in Computer Science | 3.8/4.0 | 2019-Present*
***Dwarkadas Jivanlal Sanghvi College of Engineering, Mumbai, India** | Bachelor of Engineering in Computer Engineering| 7.14/10| 2015-19*

ACADEMIC PROJECTS AND PAPERS

Edelweiss Financial Product Distribution | Data Analysis Intern   June 2018- July 2018
- Conducted Explorative Data Analysis based on the data provided and the web scraped data and pointed out faulty/incomplete company data for corrections.
- Found and presented meaningful 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 & Recruitment Analysis.
- Technology used: Python IDE Spyder with libraries such as numpy, pandas, matplotlib, statmodels, sklearn, scipy, beautifulsoup. Microsoft SQL Server. MS Excel & MS PowerPoint.

Mukesoft IT Consultants) | Android Developer Intern   June 2017-August 2017
- Researched 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.
- Technology used: Android Studio, XML, PHP, Firebase Cloud Messaging & Google APIs.

ACADEMIC PROJECTS

Password Guessing using Contrastive Predictive Coding
- Implemented and provided a novel method for password guessing from leaked passwords (Rock You) using Representation Learning – Contrastive Predictive Coding.

Time-Aware Sparsity Tolerant Web Service Recommendation
- Co-Implemented the same paper as the title in python from scratch.
- Added an additional Flask front end for a demo.

Web Service Assignment Mini-Projects
- 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 | Topics in Advanced Cloud Computing Project
- Studied log data of DBaaS such as Mongo DB Atlas & Amazon RDS, simulated an offline DDOS attack, & used log data from those simulations to do streaming training & detection models for DDOS attacks.
- Studied privacy infraction, and data requirements for detection models.

IMAGE OL | Foundations of Computer Vision Project
- Implemented a Content Based Image Retrieval (CBIR) System, using SIFT key-points and VLAD vectors.

NYC Taxi Data Analysis | Big Data Analytics Group Project
- Integrated NYC yellow taxi data with NYC criminal arrests & educational institutions data for metropolitan traffic analysis.
- Made use of clustering & classification algorithms to identify regions, trends & factors affecting traffic.

AGE GAN | Foundations of Intelligent Systems Group Project
- Implemented an Identity Preserving Age Editing System using Conditional Generative Adversarial Networks & DLIB.

Hermes AI | During Big Red Hacks
- A disaster analysis app that used image classification and Virtual Assistant to gather information for the first responder.

Text-to-Image Generation | BE Final Year Project
- 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 | Web Technology Project
- Developed a user-account based website for uploading personal music and viewing other's music.
- Technology used: Python's Django framework, HTML, JavaScript, CSS & Bootstrap.

CERTIFICATIONS
- Microsoft Tech Associate HTML5 Essentials.
- NPTEL(IIT) –Artificial Intelligence Search Methods (IIT), Python Programming.

TECHNOLOGICAL SKILLS

Programming Languages: Java, Python, C++, MATLAB, MySQL, MongoDB, JavaScript, PHP, HTML, XML, CSS, Cypher.
Frameworks & Tools: Bootstrap, Django, Flask, Node.js, React.js, Android Studio, Tableau, Gradle, numpy, pandas, matplotlib, scikit-learn, tensorflow, pytorch (with cuda), opencv, Spring-Boot
Concepts: Algorithms, Data Structures, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Design Patterns

EXTRA-CURRICULAR
- Participated in Hackathon's like Big Red Hacks, Codeshastra(conducted by college), Deep Blue, Smart India Hackathon.
- Participated in many competitive coding contests on websites such as Codechef(5 star rating at peak), Hackerrank, Hackerearth, codeforces, securing high ranks in few and even won 3rd prize in Techgig Sponsored 'Code-Uncode'. Represented RIT at ACM-ICPC regional.