SAMBHAV ANANT RAKHE

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Burnaby, British Columbia, Canada

EDUCATION

Simon Fraser University, Burnaby, BC, Canada *[On-going] April 2023*
Master's in Professional Computer Science - Big Data
Relevant courses: Machine Learning, Big Data

Savitribai Phule Pune University, Pune, MH, India *June 2020*
Bachelor of Engineering (Distinction) - Computer Engineering
Relevant courses: Data Structures & Algorithms, Software Engineering & Project Management

EXPERIENCE

Vancouver Airport Authority (VYRAA) May 2021 - Present
Business Intelligence Co-op *Vancouver, BC*

- Currently working on multiple internal projects to implement ML & AI for airport use cases.

Uptycs August 2020 - September 2021
Software Engineer *Pune, MH, India*

- Implemented a new testing framework for the software using Flask along with JIRA and Jenkins for CI/CD.
- Implemented a system monitor with Prometheus and Grafana using time-series data.

Uptycs May 2020 - July 2020
Software Engineering Intern *Pune, MH, India*

- Got an in-depth understanding of our product on the backend.
- Enabled the use of cloud technology dependencies locally enabling significantly lower testing costs.

Hewlett Packard Enterprise January 2019 - June 2019
Big Data Trainee *Pune, MH, India*

- Trained and Certified in Big Data - Programming and Development in Hadoop.

PROJECTS

Olympics: Analysis and Prediction [Big Data Lab 2] *January 2022 - April 2022*
Technologies used: Python, Flask, Plotly-Dash, Seaborn, Prophet, Tensorflow
A detailed analysis on the past data of olympics conducted and prediction to help decide which country would be able to be the next host.

Mental Health Analysis [Big Data Lab 1] *September 2021 - December 2021*
Technologies used: Python, Flask, Plotly, PySpark, AWS S3, AWS EMR
Successfully generated mental health scores for all the Canadian Provinces by developing a Machine Learning model & used dashboards to correlate mental health with external factors based on region.

Collaborative Attack Generation And Detection Using Machine Learning Techniques *July 2019 - June 2020*
Technologies used: Wireshark, Oracle VirtualBox, Python, Scrapy, Sklearn, Bash Scripting
Achieved the accuracy of 99.847% in detection of malicious data packets by developing a machine learning model that detects collaborative attacks.

TECHNICAL STRENGTHS

Skills	Data Engineering, Data Analysis, Predictive Analysis
Computer Languages	Python, Java, Golang, HTML/CSS, Javascript, C/C++
Libraries	pandas, numpy, scikit-learn, pyspark, pyhive, plotly, seaborn
Technologies	AWS (S3, EC2, EMR, DynamoDB, Kinesis, Lambda, Redshift, KMS), GCP & Azure