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NAVYA DAHIYA

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Vancouver, Canada

Education

Masters in Data Science, *University of British Columbia, Vancouver, Canada* **Sep 21–Jun 22**
- *Among **top 1 percentile** in the cohort*
- *Designed, **deployed** and **containerized** various **machine learning** projects in the coursework*
- *Learnt and applied concepts of **hypothesis testing, A/B testing** and **statistical modelling** in the coursework*

Bachelors of Technology in Computer Science & Engineering, *Shiv Nadar University, India* **Jul 15–May 19**

Technical Experience

MACHINE LEARNING ENGINEER, Capstone Project | Sensing in Biomechanical Processes Lab (SimPL, UBC) **May 22 – Jun 22**
- **Designed** and developed reproducible **machine learning pipeline** and **modularized scripts** to detect **head collisions** in sports videos using **YOLOv5** and **Resnet 3D** algorithms
- This reproducible pipeline saved **60%** of the time spent by humans in analyzing the sports videos manually

SOFTWARE ENGINEER 2 | Dell International Services, India **Jul 19–Sep 21**
- **Designed** and developed an in-house **performance testing tool** from scratch that enables QAs to schedule load tests, identifies **performance bottlenecks** in Dell web applications, shares customized test reports via email and analyses the quality of the test, thereby reducing time consumed in operational overhead by **40%**. The tool is used by 65% of engineering projects in Dell
- Developed and deployed **Flask APIs** on **Pivotal Cloud Foundry** using **CI/CD pipelines** to incorporate **chaos engineering** into the tool which reduced the number of production failures by **15%** over the course of 18 months

BIG DATA INTERN | Birlasoft Pvt Ltd, India **May 18–Jul 18**
- Performed **Twitter Sentiment Analysis** on FIFA World Cup tweets using **Hive**, **Flume** and **Python**
- Built a **java** library that is integrated in **ETL** pipelines across the team and is capable of **migrating** more than **1000 schemas** from **Oracle DB** into the data warehouse by bridging the gap between their **schemas**

Academic Projects | UBC

Rainfall Prediction **Apr 22**
- Deployed the **machine learning pipeline** using **Flask API** with **Spark** instance in **AWS** to predict daily rainfall in Australia

MindtheGap **Mar 22**
- Built **interactive dashboards** for analysing Gapminder dataset using **Dash, python, R** and deployed the apps on **Heroku**

Simplefit, Simplerfit **Feb 22**
- Built and **published** packages in **Python** and **R** that fit various **machine learning models**, compare their performance with baseline models and return **EDA** plots. This reduces **80%** of a data scientist's effort.
- Deployed these packages using **CI/CD pipeline**

Census Income Prediction **Dec 21**
- **Containerized** the **machine learning pipeline** that predicts annual income from census data using Random Forest Classifier

Skills

Programming Languages	Python, R, Java
Databases	MySQL, MongoDB, Postgres
Data Science toolkit	Machine Learning, PyTorch, Natural Language Processing, Data Visualization, Experimentation and Causal Inference, A/B Testing, Hypothesis Testing, Statistical analysis
Cloud and Big Data	Distributed systems, Hive, Spark, AWS - S3, EC2
Software Development	Docker, CI/CD pipeline, Flask API

Achievements

Women in Data Science Hackathon | Kaggle **Mar 22**
- Ranked **1st in Vancouver** and **top 2%** out of 829 (16/829) teams **worldwide**
- Used **ensemble** modelling along with **PCA** and **clustering** techniques to predict the building energy consumption

Bot Detection model | Dell AI/ML Hackathon, India **Aug 19**
- Ranked **6th** among 40 teams in Dell
- Used **Naïve Bayes** algorithm to classify the mouse movements as Bot or Human on Dell's home page, based on mouse mapping

EXTRA CURRICULARS

- Volunteer of Content team in DataCan, a Women in Data Science community **Dec 21–Present**
- Graduate Block 2 Representative, University of British Columbia, Vancouver **Oct 21–Nov 21**
- Chairperson of Academic Affairs Committee, Shiv Nadar University, India **Jan 19–Jan 20**