

# Inder Dhillon

SENIOR DATA ENGINEER

Toronto, ON

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## Summary

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Current Senior Data Engineer at Slalom Build, the development-first division of Slalom Consulting. Experience working throughout the data lifecycle whether it's building pipelines, handling orchestration, creating dashboards, building ML models and more for clients from various industries as well as in academia. Interested in answering hard data questions, generating value for end-users and learning new tech along the way.

## Experience

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### Slalom Consulting

Toronto, Canada

SENIOR DATA ENGINEER

Jun. 2021 - Current

- Created and deployed a ML estimation model of heterogeneous treatment effects of circuit trimming using EconML for one of the leading utility companies in the US.
- Worked in a team to create an ADF solution for data migration from on-premises to Azure Data Lake for the largest agrobusiness company in the US.
- Rebuilt data ingestion workflows and built curated KPIs to help reduce losses for a leading food industry client using KNIME and Python.
- Worked as a part of a multi-pod team on the largest data ingestion project in company history for a top 3 Canadian telecom company using ADF and Databricks.

### York University

Toronto, Canada

RESEARCH ASSISTANT

Jul. 2021 - Dec. 2021

- Helped create learning scenarios, questions and data visualization assets for a Government of Ontario funded research project to promote data literacy in universities. Joint engagement by York University, University of Toronto and Ontario Tech University.

### Slalom Consulting

Toronto, Canada

DATA & ANALYTICS INTERN

Jun. 2020 - Aug. 2020

- Worked as a part of a cross-capability Agile team and built two multi-view PowerBI dashboards with backend data from an internal Drupal website and Google Analytics.

### Travel Transport

Mississauga, Canada

DATA ANALYST

Nov. 2018 - Sep. 2019

- Kept track of fuel metrics for assets using an outlier detection algorithm to catch misuse of fuel cards or predicting maintenance of assets
- Created internal-use dashboards with customs clearance statuses and asset metrics.

## Education

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### York University

Toronto, Canada

B.S. HONS. IN COMPUTER SCIENCE

Sep. 2017 - Aug. 2021

- Dean's Honour Roll Recipient.
- Executive, New Horizons Podcast Club and CSHUB

## Certifications

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2022	DAG Authoring for Apache Airflow	Astronomer
2022	Apache Airflow Fundamentals	Astronomer
2022	L1 & L2: Advanced Proficiency in KNIME Analytics Platform	KNIME
2021	Azure Data Scientist Associate	Microsoft
2021	Azure AI Fundamentals	Microsoft
2020	PowerBI Data Analyst Associate	Microsoft
2020	IBM Data Science Specialization	IBM

## Personal Projects

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### Crowd Counting and Homographic Transformation for Social Distancing

OPENCV2 - PYTHON

- Built a multi-camera crowd counting and distance detection algorithm using CV2 and YOLOv3 using homography matrix transformations to project image coordinates to real-world coordinates.

## Health Dashboard

APACHE AIRFLOW - BEAUTIFULSOUP - SELENIUM - POWERBI

- Built data sourcing pipelines from Samsung Health, HealthMate and other health data tracking services using Airflow to a curated data layer which is used by PowerBI to uncover insights and patterns using pedometer, exercise and dietary data.

## Safer Vehicle Routing

OSMNX - NETWORKX - PYTHON

- Used accident data from City of Toronto and used graph analytics libraries NetworkX and OSMnx to come up with routing algorithms that account for potential risk of accidents. Also used existing algorithms like PageRank and Girvan-Newman to cluster and rank areas and intersections that have historically been accident prone.

## Events & Hackathons

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2022	Slalom GameJam Hackathon [Captain] [Finalist]	<i>Toronto, Canada</i>
2021	RBC AmpHacks Hackathon [Captain] [Finalist]	<i>Toronto, Canada</i>
2019	YorkU HackLassonde Hackathon [Captain] [Winner]	<i>Toronto, Canada</i>
2018	RUHacks, PCHacks, YorkU Stacie Hackathon [Participant]	<i>Toronto, Canada</i>

## Technologies

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