

# Inder Dhillon

SENIOR DATA ENGINEER

Toronto, ON

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## Summary

Current Senior Data Engineer at Slalom with a proven ability to design, develop, and implement robust data solutions across diverse industries. Expertise in building and deploying GenAI applications, real-time streaming pipelines, and large-scale data ingestion frameworks using cloud technologies (AWS, Azure) and open-source tools. Proven ability to work effectively in team environments and a strong desire to contribute to innovative data-driven initiatives.

## Experience

### Slalom Consulting

Toronto, Canada

SENIOR DATA ENGINEER

Jun. 2021 - Current

- Developed a GenAI proof-of-concept (POC) for a major consumer goods company, integrating OpenAI and a Gradio frontend to provide product pricing insights and suggest promotion optimization strategies.
- Engineered a real-time data streaming pipeline for a global entertainment company, capturing event change data from a legacy MySQL system using Debezium, Azure Event Hub, Azure Function App, and API Management to store data in Azure Cosmos DB.
- Architected and developed a GenAI solution using AWS Bedrock and Kendra to generate customer service scripts for a leading financial institution.
- Created and deployed an ML estimation model using EconML for a utilities company.
- Developed data pipelines using AWS Athena for a financial services company.
- Created an Azure Data Factory (ADF) solution for data migration to Azure Data Lake for a large agribusiness company.
- Contributed to a large-scale data ingestion project using Azure Data Factory and Databricks for a major telecommunications company.

### York University

Toronto, Canada

RESEARCH ASSISTANT

Jul. 2021 - Dec. 2021

- Developed learning scenarios, questions, and data visualization assets for a government-funded research project promoting data literacy in universities (collaboration between York University, University of Toronto, and Ontario Tech University).

## Education

### 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

|      |   |            |
|------|---|------------|
| 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

### 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.

### 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]           | Toronto, Canada |
| 2021 | RBC AmpHacks Hackathon [Captain] [Finalist]             | Toronto, Canada |
| 2019 | YorkU HackLassonde Hackathon [Captain] [Winner]         | Toronto, Canada |
| 2018 | RUHacks, PCHacks, YorkU Staecie Hackathon [Participant] | Toronto, Canada |

## Technologies

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|                       |             |                |        |          |                 |                 |                    |            |         |         |       |         |  |  |
|-----------------------|-------------|----------------|--------|----------|-----------------|-----------------|--------------------|------------|---------|---------|-------|---------|--|--|
|                       | Python      | OpenAI         | Gradio | Debezium | Azure Event Hub | Azure Cosmos DB | Azure Function App |            |         |         |       |         |  |  |
| API Management (APIM) |             | Apache Airflow | SQL    | HQL      | PySpark         | Microsoft Azure | Azure Data Factory | Databricks |         |         |       |         |  |  |
| Java                  | Apache NiFi | KNIME          | EconML | PowerBI  | Tableau         | Plotly          | Pandas             | CV2        | Seaborn | Pytorch | Keras | FastAPI |  |  |
|                       |             |                |        | Jinja    | NetworkX        | OSMnx           |                    |            |         |         |       |         |  |  |