

Vikram Prashar

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Education

Bachelor of Engineering, Computer Engineering

Toronto Metropolitan University

Relevant Coursework: Data Structures and Algorithms, AI and Machine Learning, Computer Vision

Experience

Data Engineer (Reporting and Analytics), Hydro One

June 2, 2025 - Current

- Built **automated data pipelines** and analytics solutions in **Python** and **SQL** for **operational reporting**, improving delivery efficiency by 85% and increasing VP/Director+ access to actionable insights
- Designed 7+ enhancements to an internal **reporting dashboard and platform**, applying root cause analysis to drive **operational excellence** across planning and analytics workflows

Software Engineer (Streetlighting Operations), Toronto Hydro

Sept 2023 - Aug 2024

- Built 30+ **operational reporting** metrics and data visualizations in **Python** and **MySQL**, improving decision-making efficiency by 50% and reducing project duration by 25%
- Developed **automated data pipelines** for **data extraction, transformation, and reporting** in **Python, MySQL, and Git**, driving over \$50,000 in annual cost savings
- Implemented 2 relational **database** schemas to streamline **ETL pipeline** sub-processes and support **daily workflow orchestration** across streetlighting operations

Skills

- **Languages:** Python, Javascript, Java, MySQL, C and more!
- **Frameworks & Tools:** HTML 4.0, CSS Scikit-learn, TensorFlow, ResNet, Keras, Pytorch, Pandas, Numpy
- **Developer Tools:** Visual Studio 2022+, Jupyter, SAP, Git, Github, Android Studio, Linux/Unix, Excel,

Projects

Tesla Voice Command System | Python, Tesla Fleet API, Speech Recognition

- Building a **Python-based automation pipeline** integrating the **Tesla Fleet API** to execute remote vehicle commands via voice, automating **operational workflows** end-to-end
- Developing **data extraction and transformation** logic to parse real-time speech input, convert to structured API payloads, and process vehicle telemetry responses across multiple command types
- Implementing **automated workflow orchestration** handling authentication, token refresh, and command routing, eliminating all manual interaction with the vehicle control interface

Faulty Tire Predictor | Online Course Project: [Github](#)

- Built a **Python-based data processing pipeline** using **TensorFlow** and **Keras** for automated defect detection, improving accuracy by 15%
- Developed **Python-based automation scripts** using **Pandas** and **Scikit-learn** for model training and **data transformation**, optimizing processing of over 10,000 data points
- Implemented **automated data pipeline** workflows using **Python** and **OpenCV** to generate augmented training data, increasing dataset size by 100% for improved model generalization

License Plate Data Interpolator | Team Project: [Github](#)

- Developed an **automated data processing pipeline** in **Python** using **NumPy** and **Pandas** for license plate **data extraction and transformation**, achieving 98% detection accuracy
- Built **linear interpolation** logic for bounding box continuity in **time-series data**, improving detection coverage by 25% across 100+ records
- Created a version-controlled codebase in **Git**, applying **automated workflow** best practices to support testing and code review