



# Avish Kadakia

Machine Learning Engineer

## Profile

With over 4 years as a Senior Machine Learning Engineer, I've harnessed AI algorithms for robust software solutions, achieving significant business savings and performance boosts. Looking to innovate in a dynamic team.

## Employment History

### Senior Machine Learning Engineer at Curinos, Toronto

August 2022 – Present

- Championed the integration of advanced machine learning and AI techniques, elevating predictive model accuracy by 15% and propelling business solutions forward.
- Leveraged deep learning with tools like PyTorch, TensorFlow, and sklearn, sparking innovative solutions that resonated with business goals and enhanced community outreach.
- Unveiled pivotal trends through intricate statistical analysis on datasets using SQL, catalyzing a 20% surge in sales revenue.
- Engineered real-time analytics platforms using Databricks and PySpark, slashing decision-making intervals by 35%.
- Forged alliances with interdisciplinary units, crafting and rolling out ML models tailored to precise application needs.
- Steered the refinement of software workflows for ML training, bolstering performance and weaving in strategies like decision trees and XGBoost to unlock deeper customer insights.
- Stayed ahead of the curve through relentless research on emerging technologies, assuring our ML methodologies surpassed industry benchmarks for speed and precision.

### Senior Software Engineer at Profero Techno, Mumbai, India

November 2019 – November 2021

- Propelled a steadfast 20% MoM surge in customer delight over six months by refining user experiences across varied client platforms.
- Bridged communication among engineers, designers, and artists, fostering synergistic teamwork through decisive leadership.
- Swiftly addressed and resolved bugs within Profero Techno's codebase, fortifying software reliability and nurturing user trust.
- Orchestrated with multi-disciplinary squads, refining software upgrades and lifting product caliber.
- Pioneered feedback systems to grasp client desires, steering laser-focused software creation.
- Championed periodic training rendezvous, ensuring the team's acumen remained sharp with current tech evolutions and methodologies.

## Details

Toronto, Canada

Canada

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## Links

[Website](#)

[LinkedIn](#)

[Github](#)

## Skills

SQL

Python

Microsoft Office

Pyspark

Transformer

Data Analysis

Problem Solving

Machine Learning

Flexibility

Data Engineering

HTML & CSS

SK Learn

Pytorch

GPT

Deep Learning

Tensorflow

React

Analytical

Docker

JavaScript

## DevOps Engineer at Devomark, Mumbai, India

March 2019 — October 2019

- Orchestrated and maintained automated CI/CD workflows using TerraForm and GitLab, ensuring fluid code rollouts.
- Optimized cloud infrastructure elements like AWS, EC2, S3, and RDS, fortifying system robustness.
- Pivoted from a monolithic framework to a microservices layout with Docker, bolstering scalability and workflow agility.
- Supervised GitHub repositories, fortifying access protocols and streamlining code versioning via strategic branching and tagging.
- Partnered with software engineers, laying the foundation for sturdy infrastructure supporting fresh releases.

## S/W Engineer I at MAQ Software, Mumbai, India

August 2018 — February 2019

- Sculpted interactive dashboards in Power BI, harnessing Tableau and SSMS for holistic data processing.
- Refined a C# testing apparatus, raising the bar for code uniformity and standardization within SQL scripts.
- Architected automation utilities using NodeJS and React, driving a 3% uptick in CTR for observed web applications.
- Employed Selenium, fortifying unit testing for web platforms and diminishing client-reported glitches by 11% MoM.
- Engaged dynamically with the QA brigade, ensuring web apps were of pristine quality pre-launch.

Creativity

AWS

Kubernetes

AZURE

C++

GCP

Java

### Languages

English

Hindi

Gujrati

## 🎓 Education

### Master's in Computer Science , Lakehead University, Thunder Bay, Canada

August 2020 — May 2022

Graduated with Honors with a major in Machine Learning

### Bachelor of Computer Science, Vidyalkar Institute of Technology (VIT), Mumbai, India

July 2015 — May 2018

Graduated with Honors

## ★ PUBLICATIONS

### Multi-Modal Instruction based Reinforcement Learning using MoME Transformer.

- We introduced a reinforcement learning model using MoME transformer for multimodal tasks, blending transformer strengths with language and vision models.
- Training on the MNIST dataset, it associates digit images with word labels, emulating infant learning.
- Image inputs use ResNet18 and instructions use GLoVe for enhanced prediction and training.

TechRxiv. [\[Link\]](#)

## **Smart Mapping and Prediction Using Aggregation and Artificial Intelligence (SMPAAI).**

- The project aims to develop a Vacuum Robot using Artificial Intelligence and smart mapping for efficient cleaning.
  - This autonomous robot also offers manual operation, scheduled cleanings, and a bagless auto-dirt disposal system, enhancing convenience and modernizing household chores.

International Research Journal of Engineering and Technology (IRJET).

[\[Link\]](#)

## **★ Certificates**

- IBM Machine Learning Professional Certificate [\[Badge Link\]](#)
- Machine Learning Engineering for Production (MLOps) Specialization [\[Badge Link\]](#)
- Google Data Analytics Professional Certificate [\[Badge Link\]](#)
- Microsoft Exam 768: Developing SQL Data Models [\[Badge Link\]](#)
- Microsoft Exam 761: Querying Data with Transact-SQL [\[Badge Link\]](#)
- Microsoft Exam 778: Analyzing and Visualizing Data with Power BI [\[Badge Link\]](#)