

Filip Stojanovic

Toronto, ON | [Portfolio Website](#) | filipstojanovic4d@gmail.com | +1 647-383-9534

Professional Experience

Senior Data Scientist

Aviva

April 2024 - Present

- **Generative AI Model Development:** Developed neural networks using Large Language Models (LLMs) such as BERT and Llama that integrate text and structured data in order to identify subrogation opportunities, delivering over \$1 million in financial benefits.
- **Machine Learning Pipeline Deployment:** Designed automated pipelines for daily operational reports, integrating data and model predictions to facilitate claims identification and decision-making.
- **Reporting and Maintenance:** Managed performance reports, dashboards for KPIs, and documentation, collaborating with business leads to enhance tools based on user feedback.

Machine Learning Engineer

Voices.com Inc.

January 2022 - April 2024

- **Voice Cloning Model Development:** Led the AI Voice Cloning project, creating an end-to-end Text to Speech Model in PyTorch and deploying it in a Docker environment.
- **ML Ops Deployment:** Transitioned VoiceMatch and Pricing Recommendation Models to a serverless architecture on AWS Sagemaker and Lambda, simplifying deployment and improving performance.
- **Database Engineering:** Developed a Business Intelligence data warehouse using AWS Redshift Serverless and created automated ETL pipelines for data ingestion from sources including MySQL, Salesforce, and Google Drive.

Machine Learning Engineer

Opta Information Intelligence Inc.

October 2019 - January 2022

- **Machine Learning Model Development:** Created predictive models for identifying Fire Risk and Smoke Alarms, which were adopted and utilized by municipal fire departments across Canada for property inspections.
- **Model Deployment:** Deployed Lot Size and Comparable Properties models in AWS Sagemaker, enabling real-time predictions via serverless APIs.
- **ETL Pipelines:** Developed automated processes to maintain large-scale databases, employing AWS tools for data validation and cleaning.

Data Scientist

Social Extract AI

May 2017 - October 2019

- **Dashboards and Visualizations:** Designed and maintained dashboards in Tableau, Google Analytics, and Matplotlib to track KPIs.
 - **NLP Modelling:** Employed NLP techniques using Word2Vec and NLTK to derive insights from unstructured social media data through sentiment analysis and topic modeling.
 - **Python Script Automation:** Created scripts to automate data ingestion and calculations across various platforms.
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Personal Projects

- [Movie Recommendation Engine](#)
 - A web app providing AI-based recommendations based on user-inputted movie ratings.
 - **Technical Stack:** Flask, React, MySQL, Docker
 - [Free Stock Market Simulator](#)
 - A simulated stock trading platform allowing virtual transactions with real-time data.
 - **Technical Stack:** Flask, PostgreSQL, Docker
 - [Portfolio Website](#)
 - A fully responsive portfolio showcasing projects with a user-friendly interface.
 - **Technical Stack:** HTML, CSS, JavaScript
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Education

University of Toronto

Bachelor of Science in Mathematics and Physics

Stanford University Courses

Machine Learning Specialization, Deep Learning Specialization

Technical Skills

- **Languages:** Python, JavaScript, HTML, CSS, Regex
- **Databases:** SQL, ElasticSearch, AWS Redshift, Matillion, Snowflake, Hadoop
- **Machine Learning:** AWS Sagemaker, Jupyter, PyTorch, Hugging Face
- **ML Ops:** AWS (Lambda, S3, EC2, Cloudwatch), Docker, Bash, Git