

# Hashir Ahmed

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## EDUCATION

**Software Engineering**, University of Calgary

2018 – 2023 | Calgary, AB, Canada

- *Bachelor of Science in Software Engineering with Distinction.*

## SKILLS

**Programming** (Python, MySQL, REST APIs, PostgreSQL, Java, C/C++, C#, HTML/CSS, JavaScript, PHP, MongoDB)

**Frameworks** (Node.js, Express.js, Spring, Spring Boot, JUnit, OpenGL, Symfony, Twig, React.js, Hadoop, Spark)

**Developer Tools** (Git/Github, Visual Studio, Azure Machine Learning, ML Canvas, Azure Cloud, Tensorflow, Agile/SCRUM, Databricks, Postman, Docker, Hadoop)

## PROFESSIONAL EXPERIENCE

**Associate Machine Learning Developer**, AltaML | Invent Team

May 2023 – Sep 2023

- Designed, built, and optimized an **ETL pipeline** in **Python** to automate the ongoing Machine Learning (ML) use case for a large energy company, forecasting churn rates of over **15 million customers** and helping increase the yearly revenue by up to **5 million dollars**.
- Constructed **ML models** (**Logistic Regression**, **Random Forest**, **Naive Bayes classifier**, and more) achieving strong results with **~83% model accuracy**.
- Crafted **SQL scripts** to generate client data resulting in a **20%** improvement in data integration efficiency and facilitated smooth and efficient data integration.
- Collaborated in developing an innovative copilot tool using **Prompt Engineering** with cutting-edge **LLM** technology, the **text-DaVinci-003** model from OpenAI, to enhance non-technical employees' interactions with **Airtable**.
- Leveraged **Azure Cloud** Machine Learning services to develop, manage, and test the **ETL pipeline**, and perform warehousing and versioning for 3 datasets with **600,000** samples each.

**Software Quality Assurance Intern**, Mobility Quotient | Analytics Team

May 2021 – May 2022

- Led the development and implementation of **10+** comprehensive test plans, utilizing **Selenium** to automate testing processes for web pages.
- Executed rigorous testing of **5 critical APIs**, resolving **400+ bugs**, ensuring heightened functional validation and optimal system performance.
- Performed in-depth **data analysis** and **web scraping** on **500+** commercial websites. Extracted encoded product data and utilized **XML** sitemaps to assess the feasibility of aggregating data.
- Contributed to the addition of over **2 million products** from more than 1000 local businesses across **30 cities** in North America through data gathering and integration efforts for the Sokolocal Project.

## PROJECTS

**Flexiform**, Engineering Capstone Design Project

Sep 2022 – Apr 2023

- Developed a web-based computer-aided design (**CAD**) **tool** with a team of 5 engineers to simplify prosthetic **mesh editing** for hand amputees. Utilized **Unity game engine**, **C#**, and **WebGL** for web-based implementation.
- Improved the computation times of casing models by nearly **90%** through extensive testing and algorithmic improvements.
- Implemented **12+ features**, including mesh filling and casing features, and designed an **intuitive UI** for seamless mesh modification.

**ML Classification on Medical dataset**, Big Data Analytics Project

Nov 2022 – Dec 2022

- Developed 7 **classification machine learning models** to predict the need for diabetes medication to improve patient care and treatment outcomes
- **Orchestrated ML workflows**, including **data processing**, exploratory data analysis, and model training, utilizing **Databricks**, **Hadoop**, and **Apache Spark** to process large medical datasets efficiently
- Applied hyperparameter tuning techniques to optimize model performance, resulting in **~95% accuracy** and **~97% F1** scores.