Mohammad Shahriar Hossain

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github.com/hossain-shahriar

EDUCATION

University of Alberta – *terms completed: 6 / 8*   *Sept 2021 – May 2025*
B.Sc. Computing Science (Specialization in Software Practice)

• **Important courses**: Predictive Business Analytics, Operations Management, Introduction to Machine Learning, Reinforcement Learning Specialization, Search and Planning in Artificial Intelligence, File and Database Management (SQL & MongoDB), Introduction to Software Engineering, Computer Architecture I

ACADEMIC PROJECTS

Edmonton Housing Data Analysis (link)
• **Tools & Techniques:** Utilized SQL and Python for data cleaning and analysis; employed Power BI for visualization.
• **Impact:** Assists newcomers and international students in Edmonton in finding ideal housing through a dashboard with filters for price, room numbers, house size, and community.

Predictive Modeling and Analysis of Traffic Accidents (link)
• **Tools & Techniques:** Employed R programming, utilizing predictive models like KNN, LDA, and Random Forest.
• **Impact:** Predicts accident severity using variables such as weather conditions, road type, and time of day, enhancing road safety and traffic management.

EXPERIENCE

Software Developer – Sensilmage Technologies Ltd.   *Edmonton, AB | Feb 2024 – Present*
• Developed HandCOMM's main display unit GUI using Python (Tkinter) on a Raspberry Pi 4 and designed the company website with React/Next.js and TailwindCSS.
• Enhanced HandCOMM's core technology, optimizing system performance and hand signal interpretation, significantly improving safety and efficiency in crane operations.

Tech Solutions Advisor & Omni-Channel Specialist – Best Buy Canada   *Edmonton, AB | May 2023 – Sep 2023*
• Enhanced customer understanding of product features and benefits, contributing to a 15% increase in customer purchase decisions.
• Developed targeted sales strategies that not only optimized product placements but also led to a notable increase in accessory upselling, with an average of 30 additional units sold per month.

Resident Assistant – University of Alberta, Residence Services   *Edmonton, AB | Sep 2021 – April 2022*
• Promoted equity, diversity, and inclusivity through regular community-building activities and responded effectively to various student issues and emergencies.
• Learned valuable interpersonal and crisis management skills, enhancing my ability to support and lead in a community setting while ensuring student safety and well-being.

SKILLS/EXPERTISE

• **Academic Expertise**: Data analysis, Data Science, Machine Learning (Supervised & Reinforcement Learning), Artificial Intelligence, Software Development, Embedded System Design, Web Application Development

• **Software**: Microsoft office, Power BI, Tableau, Figma, Lucidchart, Adobe Creative Cloud (illustrator, Photoshop), AnyDesk

• **Programming Language**: R (dplyr, tidyr, ggplot2, tensorflow, rpart, tidyverse, randomForest), Python (numpy, pandas, matplotlib, seaborn, scikit-learn, tensorflow), SQL, MongoDB, C/C++/C#, Lisp, Prolog, Assembly (RARS RISC-V), Java, Julia, HTML, CSS, Javascript, MATLAB

• **Programming Tools**: Jupyter Notebook, Git, Linux, Android Studio, iOS, Raspberry Pi, Visual Studio, Node.js

CERTIFICATES & TRAININGS

Alberta Class-5 Driver's License (GDL)   *Edmonton, AB | August 2023 - November 2024*
WHMIS (Workplace Hazardous Materials Information System) Training   *Edmonton, AB | May 2023*