Arham Naqvi

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Objective & Core Competencies

Honours Computer Science graduate specializing in Data Science with a minor in Mathematics and **15+ months of operational experience in FNOL P&C insurance.** Uniquely positioned to combine expertise in **Python, SQL, Excel, Power BI, Azure & machine learning** with frontline insurance data intake, validation & integrity experience. Seeking a transition into analytical roles supporting underwriting, risk assessment, fraud detection and claims workflows.

- **Insurance Domain:** FNOL Processing, Liability Awareness, Regulatory Compliance, Data Integrity (CROMS)
- **Languages/Scripting:** SQL, Python, R
- **Analysis & Visualization:** Excel, Power BI, Matplotlib, Seaborn, ggplot2, leaflet
- **Data Science:** PyTorch, Scikit-Learn, Pandas, NumPy, OpenCV, Ultralytics, Librosa, tidyverse
- **Tools & Infrastructure:** Microsoft 365, Azure, Jupyter, PostgreSQL, MySQL, VSCode

Professional Experience

Collision Reporting Specialist | Accident Support Services International Ltd.
650 Rossland Rd E, Oshawa, ON | May 2022 – February 2023, August 2025 – present

- **Validate FNOL (First Notice of Loss) collision files**, maintaining **99%+ data integrity** while updating MTO databases via CROMS, supporting downstream actuarial risk assessments and underwriting decisions
- **Mitigate claims leakage** by flagging conflicting collision details to identify potential fraud or liability discrepancies, liaising with law enforcement to verify facts before finalizing reports for insurer workflows
- **Manage high-volume data intake at 80+ daily & 3+ simultaneous collision files**, adhering to strict service level agreements (SLAs) for police and insurers while explaining procedures to claimants with clarity & assertiveness

Data Analyst / Research Assistant | Affective Data Science Lab
2000 Simcoe St N, Oshawa, ON | May 2024 – August 2024

- **Developed** **Audiomorph**, a Python-based noise injection tool that augments key acoustic audio file properties (frequency, amplitude, and power level) under the supervision of **Dr. Steven Livingstone**
- Conducted **data cleaning, preparation and analysis of 1440 audio files** from the **RAVDESS** speech audio dataset to learn critical parameters and ensure data integrity for downstream processing/modeling
- **Independently learned and applied the mathematics of digital signal processing** including the Fast Fourier Transform, Complex Analysis and signal filtering
- ***Impact:*** Enabled psychoacoustic research investigating human emotional perception under degraded audio conditions

Peer Discussion Leader | STEM for Everyone
399 Chaleur Ave, Oshawa, ON | June 28th, 2024

- Demonstrated leadership spearheading STEM group discussions of **30+ students** from a special needs school

Calculus 2 Teaching Assistant | Ontario Tech University
2000 Simcoe St N, Oshawa, ON | January 2024 – June 2024

- Led tutorials and office hours for **100+ students across 3 sections**
- Demonstrated leadership, public speaking, communication skills, and mastery of complex mathematical concepts while lecturing **rooms of 30+ students** in a high-stakes educational setting
- **Leveraged Microsoft 365** to independently formulate/grade weekly lessons/assessments, collaborate with faculty supervisors, maintain student records and present lectures

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Key Projects

Vision Pong: Real-Time Computer Vision Hand Tracking & Collision Physics Simulation
Python (Numpy, Pandas, OpenCV, PyTorch, Ultralytics, PyGame) | April 2025

- Engineered data pipeline: **collected, cleaned, labeled, and augmented 17000+ images**
- Trained a YOLO-based deep learning CNN **achieving 94% accuracy** on real-time video stream hand detection, demonstrating model training & CV proficiency applicable to automotive damage assessments and plate reading
- Implemented live collision physics simulation with multi-threaded rendering pipeline
- ***Applications:*** Automated image classification workflows, **claims damage assessments**, human-computer interaction, accessibility technology and motion control systems (e.g., assistive devices for motor impairments)

Washington Electric Vehicle Market Analysis
R (ggplot2, dplyr, ggthemes) | April 2024

- Conducted EDA on **177,000+ EV purchase records,** extracting brand KPIs and market trends
- Created publication-ready visualizations in ggplot2 to communicate manufacturer performance and geographic growth trajectories
- ***Outcome:*** Demonstrated ability to translate raw data into actionable business insights

Education & Certifications

B.Sc. (Honours) Computer Science, Minor in Mathematics, Specialization in Data Science
Ontario Tech University | Class of 2025

- **Graduated with Distinction:** cGPA 3.55
- **Core Subjects:** Probability Theory & Statistics, Calculus 1&2, Machine Learning, Data Analysis, Data Mining, Big Data Analytics, Artificial Intelligence, Databases, Numerical Analysis, Real Analysis, Network Science
- **Honors:** Scholarship 2022-2023; President's List (F22, W23, F23, F24); Dean's List (W25)

Liberty Mutual: Foundations of Insurance
In Progress | Expected Q1 2026

- Studying the history & principles of insurance, risk management techniques, policy structures and regulatory environments to provide value through superior risk analytics

Microsoft Certified: Power BI Data Analyst Associate (PL-300)
In Progress | Expected Q1 2026

- Deepening expertise in **Power Query,** Data Analysis Expressions **(DAX),** DB interfacing, data visualizations and dashboards for effective insight extraction, presentation and stakeholder communication

Microsoft Certified: Azure Fundamentals (AZ-900)
In Progress | Expected Q2 2026

- Learning how to leverage cloud-based solutions to provide high availability, scalability, agility, disaster recovery, governance and security monitoring in modern virtualized business environments

IBM: Databases and SQL for Data Science
Issued January 2025

- Executing SQL CRUD operations while interfacing with relational databases using Jupyter Notebooks and Python