DAWIT L. GULTA

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PROFESSIONAL SUMMARY

Results-driven Data Scientist with 5+ years of experience transforming healthcare and operational data into actionable insights. Expertise in machine learning, statistical analysis, ETL pipelines, and data visualization. Published researcher with a Master's in Information Systems & Technology. Proven success in predictive modeling (36% improvement in fracture risk accuracy), dashboard development, and stakeholder engagement across clinical and nonprofit sectors.

EDUCATION & CERTIFICATIONS

Master of Information Systems & Technology – York University, Toronto (Aug 2025)
Dean's Award for Research Excellence

B.A. in Management Information Systems – Unity University, Ethiopia (2009)

Certifications:
Big Data & Analytics (York, 2023) | Data Science (Waterloo, 2022) | N2 Clinical Research (2024) | TCPS 2 Ethics (2024)

TECHNICAL SKILLS

- **Languages & Tools:** Python, R, SQL, JavaScript, TypeScript, Node.js, React, Tableau, Power BI, Excel

- **ML & Modeling:** Regression, classification, clustering, time-series, ensemble methods, deep learning, NLP

- **Data Engineering:** ETL pipelines, dimensional modeling, data validation

- **Healthcare Systems:** EHR/EPIC, clinical databases, TCPS 2 compliance

- **Web Dev:** Full-stack (React, Node.js), PWA design

- **Cloud & Infra:** Azure, AWS fundamentals, Git/GitHub

PROFESSIONAL EXPERIENCE

Sunnybrook Research Institute – Research Data Analyst
Toronto | May 2024 – July 2025

- Built ML pipeline for vertebral fracture risk prediction (36% accuracy improvement); published in IEEE CIBCB 2025

- Automated ETL workflows (Python/SQL), reducing manual effort by 60%

- Developed Power BI/Tableau dashboards integrating EHR and clinical data for 650+ patients

- Ensured statistical rigor (AUC-ROC, sensitivity/specificity) and TCPS 2 compliance

- Collaborated with physicians and researchers to translate analytics into decision-support tools

York University – Teaching Assistant

Toronto | Sept 2023 – May 2025

- Delivered instruction in Python, R, SQL, ML, and data visualization to 100+ students per semester

- Mentored capstone projects and provided technical guidance

ACCN – IT Support & AI Consultant

Toronto | Oct 2025 – Present

- Supporting IT infrastructure and advising on AI/data strategy for community care operations

Feed Scarborough – Market Coordinator & Data Analyst

Toronto | Sept 2020 – Dec 2021

- Improved program effectiveness by 30% through performance analytics

- Created BI reports for resource allocation across 650+ recipients

KBEK Construction – Information Systems Analyst

Ethiopia | Aug 2017 – Dec 2019

- Designed SQL Server databases and ETL pipelines for operational data

- Built executive dashboards for project management and resource optimization

MCM Medical Center – Healthcare Data Analyst

Ethiopia | Jan 2009 – Aug 2009

- Analyzed hospital data and supported executive planning with clinical reports

RESEARCH & PROJECTS

Publications:

- IEEE CIBCB 2025: ML for vertebral fracture prediction (36% accuracy gain)

- IEEE LA-CCI 2024: Optimization algorithm improvements (Dual Annealing, Memetic)

- British Journal of Sports Medicine 2025: Post-hip replacement activity guidelines

Portfolio Highlights:

- End-to-end ML pipeline for fracture risk assessment

- Deep learning models for medical imaging

- Pediatric analytics using PIRN dataset

- GitHub: github.com/DawitLam

Optimization Tools:

- SciPy-based memetic algorithm implementation

- Cohen's d effect size computation library

Umoja Robotics Projects:

- Full-stack scouting app (React/Node.js) for FRC competition analytics

- LMS for robotics curriculum delivery

- AI/STEM education for marginalized youth

COMMUNITY ENGAGEMENT

Umoja Robotics – Mentor & Program Lead
Scarborough | 2023 – Present

- Lead AI/STEM education and technical projects for high school students

- Developed LMS and scouting tools supporting 50+ team members

Languages: English (fluent), Amharic (native)
Strengths: Stakeholder engagement, problem-solving, detail-oriented, OHSA familiarity, political acuity