Amirhossein Hajigholam Saryazdi

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Education

- **M.Sc. in Business Analytics and Technology Management** — Montréal, Canada
  Concordia Universityl — *2021–Present*
- **MBA** — Tehran, Iran
  Kharazmi University — *2016–2019*
- **B.Sc. in Mechanical Engineering** — Isfahan, Iran
  Isfahan University of Technology — *2010–2015*

Work Experience

- **Teaching Assistant, Tutor, and Facilitator** — Montréal, Canada
  Concordia University — *2021 - Present*
  - A variety of courses in Business and Engineering departments (*Full list on my teaching webpage*).

- **Data Science Researcher** — Montréal, Canada
  Concordia University — *2021 - 2022*
  - Collected, preprocessed, explored, analyzed, visualized, and applied **Statistical/Machine Learning** techniques on Amazon data in order to examine the factors influencing online ratings (*A sample of codes on GitHub*).

- **Business Consultant** — Isfahan, Iran
  Faran Co. (Real Estate and Construction Industry) — *2019 – 2021*
  - Introduced technology solutions to enhance project efficiency, resulting in a 15% reduction in operational expenses and a 10% reduction in project completion times.
  - Identified growth opportunities that facilitated the company's expansion into new geographic regions, resulting in a 5% increase in the company's overall value.

- **Data/BI Analyst Intern** — Tehran, Iran
  Bimeh Asia Co. (Insurance Industry) — *2018 – 2019*
  - Designed and implemented a decision-support system utilizing historical data to recommend strategic improvement scenarios aimed at boosting market share.

- **HVAC Engineer** — Isfahan, Iran
  Faran Co. (Construction Industry) — *2015 – 2016*
  - Conducted thermal and cooling calculations to determine the appropriate air conditioning system for a residential complex.

- **Product Engineer Intern** — Tehran, Iran
  Bahman Group Co. (Automotive Industry) — *2014 – 2015*
  - Collaborated with the production team to enhance production line efficiency by implementing industry-standard protocols.

Volunteering

- **Administrator, Mentor, Coach** — Online
  How to Apply to Business Schools — *2020 – Present*
  - "I am a member of a team that manages an online non-profit platform dedicated to assisting Iranians interested in pursuing business school studies abroad. Our activities include conducting workshops, providing mentorship, and offering coaching.

Selected Projects

- Conducting a systematic scoping review (*Paper on SSRN*).

- Mitigating Unintended Bias in Toxicity Detection Language Model (*Paper on SSRN, codes on GitHuB*)

- Implemented Supervised Statistical, Machine Learning, and Deep Learning Models (**linear regression, random forest, SVR, RNN, LSTM, GRU**) with Hyperparameter Tuning by Cross-Validation to Multisteps Forecast of Electricity Prices (*A part of codes on GitHub*).

- Implementing Complex Networks Methods (**Visibility Graph with Machine Learning Methods (Random Forest, Gradient Boosting, MLP)**) to Examine the Seasonal Nature of Electricity Load (*Codes on GitHub*)

- Feature engineering consumer reviews sentiment to enhance price prediction of Machine Learning models **linear regression, ridge and Lasso regression, SVR, random forest, XGBoost, and a neural network** on Airbnb listings. (*Codes on GitHub*)

- Reviewing Deep Learning packages for R (**FNN, RNN, CNN**) (*A part of codes on GitHub*)

Computer Skills

Python, R, SQL, SAS, Microsoft Excel/VBA, Tableau, Microsoft Power BI, Apache Spark, AWS.