VAAKESAN SUNDRELINGAM
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SUMMARY

Graduate student in statistics at the University of Waterloo with a focus in machine learning. 2+ years of experience in data engineering and 3+ years of experience with data management and data analysis.

EDUCATION

MMath Statistics (Data Science Specialization)
University of Waterloo (Sep 2019 – Present).
GPA: 83.3%.

B.Sc. Mathematics & Statistics (Double Major)
University of Toronto Mississauga (Dec 2016).
GPA: 3.8/4.0.

SOFTWARE AND PROGRAMMING SKILLS

R, PL/SQL, SQL Server, Python, Spark, SAS, Power BI, advanced Microsoft Excel.

WORK EXPERIENCE

Data Management Analyst/ Reinsurance Analyst
Munich Re (Jun 2017 – Aug 2019):

- Data engineering and development of extract, transform and load processes.
- Data validation and data cleaning using rule-based queries for outlier detection and imputation.
- Data analysis and presentation of actionable recommendations to senior management.
- Developed complex queries to extract information for internal/external partners or to resolve complex data issues.
- Provided accurate reinsurance-related reports, dashboards and/or statistics (analysis) to internal stakeholders and business partners.

Data Analyst
Decision Resources Group (Mar – Apr 2017):

- Data quality control, forecasting, and trend analysis of medical imaging data.
- Performed data quality and consistency checks (e.g. identifying anomalies using historical data).
- Used statistical methods to determine trends from historical data and make projections for the next quarter.

AWARDS

- Vector Scholarship in Artificial Intelligence (2019).
- Mathematical & Computational Sciences Honour Roll (Gamma, Delta) (2016, 2017).
- Dean's List Scholar (2012 – 2016).

PROJECTS (see links)

Taphonomic variance between ferns and Medullosan seed ferns from the Mazon Creek lagerstätten (Oct 2014):

- Involved in the data preparation and data exploration phase. Created a database to digitalize the raw data originally collected by Gordon C. Baird.

NBA Shot Logs: Makes and Misses (Dec 2019):

- Compared 16 classifiers on the ability to predict shot accuracy based on a small set of in-game variables.

Regression for Classification (Class Masking)

Linear Decision Boundaries

Artificial Neural Network for Gender Recognition by Voice

- Given a voice recording, classify whether the speaker was a male or a female using a simple artificial neural network built with the Keras library.

OTHER EXPERIENCE

Volunteer Lab Technician
Sporometrics Inc. (May – Aug 2013):

- Data management for an epidemiological study at a small-team public health company.
- Extracted and analyzed DNA data to study West Nile Virus and Eastern Equine Encephalitis across the GTA.