

Leo Tsang

DATA SCIENTIST · MSc. DATA SCIENCE & ANALYTICS

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ABOUT ME

Languages	Python, R
Database	Hadoop, SQL, Hive, Spark
Technologies	IPython, PyCharm, R Studio, Github, Pandas, Scikit-learn, Keras, Unix, Map Reduce, Excel/VBA
Visualization	ggplot2, Tableau, PowerBI, Gephy

EDUCATION

Ryerson University

Toronto, ON

MASTER OF SCIENCE, DATA SCIENCE & ANALYTICS

September 2018 - Expected 2020

- Course Work: Machine Learning, Big Data Tools, Graph Mining, Deep Learning, Design of Algorithm & Programming for Big Data

Chang School of Continue Education, Ryerson University

Toronto, ON

CERTIFICATE IN DATA ANALYTICS, BIG DATA, AND PREDICTIVE ANALYTICS

May 2016 - June 2018

EMPLOYMENT

Senior Research Analyst

July 2019 - Present

RYERSON UNIVERSITY - OFFICE OF VICE PRESIDENT, RESEARCH & INNOVATION

Toronto, ON

- Manage University's research portfolio for Public University Ranking Agencies (THE, QS, USA News), including compiling research funding metrics, Bibliometric, and Researcher's profile
- Scrape public databases using Python for Bibliometric data, and build researcher's profile to be used in performance evaluation and award recognition
- Forecast the effect of research-related performance changes on scholarly, research and creative (SRC) resources in order to provide a basis for resource allocation, assess financial viability of new research initiatives and to advise the Vice-President and senior management on resource planning
- Create reports, scenarios and data models on a regular and ad hoc basis from research and non-research data sources, as requested by OVPRI senior management. Gather and organize statistical information on faculty and department SRC activities at Ryerson to assist management on resource allocation
- Develop, and define goals for University Policy Procedure under the research portfolio, worked closely with University Planning Office on setting requirements to be met by the Research Office

Research Analyst

September 2016 - June 2019

RYERSON UNIVERSITY - OFFICE OF VICE PRESIDENT, RESEARCH & INNOVATION

Toronto, ON

- Actively monitor revenue upwards of \$100M to ensure correct amount are being recorded for fiscal year end; Identify over \$1M (2%) of research revenue not being rightfully reported, increasing year after year revenue since
- Research and evaluate research-related data in order to create information suitable for research planning and decision support resulting in metrics used to help determine Faculty's performance
- Generate interactive dashboards via Tableau visualizing various research metrics for senior management and faculty dean for strategic planning purposes
- Collect, produce, analyze and interpret information including research funding performance evaluation and strategy, research performance indicators, and policy development for use by the Vice-President, senior management in the portfolio, other Vice- Presidential portfolios, faculties and departments
- Automate reports using Python or VBA to streamline processes improving team's efficiency
- Design and conducted confidential surveys by using various masking techniques for full anonymity

Research Assistant

September 2014 - August 2016

RYERSON UNIVERSITY - OFFICE OF VICE PRESIDENT, RESEARCH & INNOVATION

Toronto, ON

- Reconciled monthly expenditures to ensure all expenses are rightfully expended resulting in error-free audit for fiscal-year end
- Maintain databases and assist in producing reports, briefing materials, correspondence and other documentation to support operations
- Wrote SQL queries to extract and transform existing data for analytical purposes
- Created user-defined functions of KPI calculations for ease of use for quick analysis

PROJECTS

Predicting NBA All-Star 2019-20: Web scrape 5-years of NBA statistics, perform feature extraction and execute boosting tree algorithm