

CMPT 733 Big Data Science – Final Project

Call for Project Idea

Title of the Project:

Measuring observable influence and impact of scientific research beyond academia

Description:

Since 2001, Genome British Columbia has been investing in life science research in BC to address challenges in key sectors such as health, forestry, fisheries, aquaculture, agrifood, energy, mining, and environment. As part of Genome BC's efforts to measure the impact of our funded research and demonstrate accountability to our stakeholders, we would like to identify how academic publications generated by funded research projects, translate to real world impacts.

The goal of this project is to create a system that automates the process of matching academic publications that have arisen from Genome BC funded projects, to publicly available "downstream documents", such as policy and practice documents where references may be found, in order to assess whether the academic outcome had any influence in decision making. These downstream documents may be clinical guidelines provided by health authorities, health technology assessments (HTAs), policy documents, protocols, provided by Canadian organizations (such as BC Cancer (<http://www.bccancer.bc.ca/health-professionals/clinical-resources/chemotherapy-protocols/head-neck>), Canadian Agency for Drugs and Technologies in Health (<https://www.cadth.ca/about-cadth/what-we-do/products-services/cdr/reports>) etc.).

Datasets:

Genome BC will provide 1 dataset of a list of academic publications that have arisen from Genome BC funded research, as well as a list of third-party resources of publicly available downstream documents.

Contact person:

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Contributor of the Project Idea:

Genome British Columbia leads genomics innovation on Canada's West Coast and facilitates the integration of genomics into society. A recognized catalyst for government and industry, Genome BC invests in research, entrepreneurship and commercialization in life sciences to address challenges in key sectors such as health, forestry, fisheries, aquaculture, agrifood, energy, mining and environment. Genome BC partners with many national and international public and private funding organizations to drive BC's bioeconomy.

<https://www.genomebc.ca/>