GEORGE & FAY YEE
Centre for Healthcare Innovation

2-day workshop

MACHINE LEARNING & VISUALIZATION

for Healthcare Data: Foundations

This 2-part workshop will introduce participants to an introduction to healthcare data analysis with hands-on exercises.

Thursdays, December 3 & 10

2:00pm-5:00pm CST, online

Presented by
Mohamed Elgendi

Learning Objectives

- Use widely available Python libraries to load, clean, explore, and analyze health datasets
- Visualize health datasets using different types of charts
- Describe the strengths and weaknesses of several machine learning methods (e.g., Decision Tree Classifier, K Neighbors Classifier, Gaussian NB, and Random Forest Classifier) and have a workflow for applying these.

Who should attend?

Clinician scientists, researchers, trainees with an interest in healthcare data will benefit.

Requirements

- Google account and access to Google drive
- A tablet or computer
- Experience with Python programming will not be essential for learning these skills. (However, code will be available for download in advance of the workshop to enable participants familiar with Python and data programming to replicate the results shown in the examples.)

Registration Required

- **$50 fee.** Space is limited.
- To access the webinar, please register at: ***https://bit.ly/3ebbTPc***
- ***Registration deadline: December 2, 2020***
- Cancellations: A registration refund will be made upon written request on or before November 29, 2020. A $35 administrative fee will be retained. No refunds will be made for cancellations after this date.

Presented by

Mohamed Elgendi

Mohamed Elgendi is currently a Research Associate at UM's Centre of Healthcare Innovation, Adjunct Professor at UBC's Department of Electrical and Computer Engineering, a Senior Member at IEEE, and a Senior Fellow at Howard Brain Sciences Foundation. In addition to his 10+ years of experience in the field of data analysis, he received training on Big Data Analysis and Leadership in Education from MIT. Dr. Elgendi's expertise in the areas of digital health, data analysis & visualization includes his work in Global Health with the PRE-EMPT Initiative (funded by the Bill and Melinda Gates Foundation), the Institute for Media Innovation at Nanyang Technological University (Singapore), and Alberta's Stollery Children's Hospital (Canada). Dr. Elgendi specializes in bridging the areas of engineering, computer science, psychology, and medicine for knowledge translation.

For more info, email **moe.elgendi@gmail.com**

Winnipeg Regional Health Authority / Office régional de la santé de Winnipeg — Caring for Health / À l'écoute de notre santé
Shared health Soins communs Manitoba
University of Manitoba
Strategy for Patient-Oriented Research SPOR Putting Patients First
Manitoba