Department of Computer Science

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Presents

Assessment of the Association between Physical Behaviours, Psychological and Environmental Factors, and Eating Habits of Canadian Patients who Regained Weight after Bariatric Surgery

by

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M.Sc. Thesis Proposal Presentation
Time: Apr 8, 2022 03:15 PM Halifax
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Body mass index (BMI) is used to diagnose obesity and is defined as 30 kg/m2 or greater. Obesity is a complex medical condition characterized by an excess of body fat that increases the risk of developing co-morbidities like cardiovascular disease (CVD) and diabetes. Excess weight is a global concern with an ever-growing prevalence. The goal of this thesis is to develop an effective and practical post-surgery guideline, based on clinical data, in order to determine potential predictors of surgical success. With this information, clinicians and patients can work together to minimize long-term weight regain post-surgery. To achieve this goal, we used many supervised and unsupervised machine learning algorithms in this study.