A machine learning approach to identify product characteristics that contribute to increased risk of frequent vaping and vulnerable youth populations

Rui Fu (Ray), Post-doctoral Fellow (CAstToR Pilot Awardee)
University of Toronto (Canada)
Rui.fu@mail.utoronto.ca
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Implications for FDA’s tobacco regulatory authorities

• Nicotine use / dependence as the primary predictor of becoming frequent vapers in 6 months
  • Scoring $\geq 1$ on the Hooked on Vaping Checklist predicts a higher risk
• Vulnerable youth subpopulations
  • Younger students with high levels of perceived discrimination and/or belong to certain racial/ethnical minority groups
• Potentials of using machine learning to predict vaping behaviour progression in youth