INFORMATICS INSTITUTE OF TECHNOLOGY

INFORMATICS INSTITUTE OF TECHNOLOGY

In Collaboration with

UNIVERSITY OF WESTMINSTER

Online Food Delivery Sales and orders prediction using Machine Learning

Final Thesis

Mr. Naveen Selvam

Supervised by

Miss. Sapna Kumarapathirage

Submitted in partial fulfilment of the requirements for the

BEng (Hons) Software Engineering Degree at the University of Westminster.

July 2022

Abstract

This shows the rapid growth of the online food delivery industry, which has increased the requirement to identify the key success characteristics that are essential to online food delivery providers. Due to competition among online food delivery firms, several businesses have failed as a result of new food delivery companies offering a wide range of deals to entice loyal customers away from other businesses. So, this is one of the reasons why online food delivery companies fail to succeed in the market, and investors are hesitant to invest in new ventures. They are unable to improve the sales process and identify customer purchases, and they are unable to make spending decisions for new employees and promotions. If food delivery firms are unable to analyze these issues, revenues and orders will decline, and the business will eventually fail.

To capture the market, Online Food Delivery companies must analyze the sales and orders the company. In this research project, the author tries to prove the reasons for this manual sales and orders forecast which can be done through machine learning models to give more accurate predicted sales and orders.

Keywords: Online Food Delivery, Machine Learning, Random Forest Regression, Sales and Orders Prediction.