**Domino's Pizza Enterprises Ltd**
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# Domino's Data Science Case Study

## Purpose

Thanks for applying for the role!

The purpose of this case study is to allow us to assess your suitability for the role of 'Data Scientist – International' for which you have applied. As part of this case study, you will:

- Solve an analytical problem
- Showcase your technical and methodical skills
- Conduct analysis and generate insights, and
- Explain your findings to a (mixed) audience of commercial and technical people

## Context

John owns and manages three Domino's stores. John deeply cares about customer satisfaction and his motto has always been: "Provide supreme service so customers come back next time."

Acting on his motto, John wants to provide customers an accurate estimate of the time to door (TTD), and has instructed his staff to keep track of the following variables:

- Number of undelivered pizzas ahead in the queue
- Number of items in the order
- Number of drivers on shift at the time the order is taken
- Number of staff on shift at the time the order is taken
- House Count in area where the store is located
- Estimated Google drive time to the customer address

John has hired you to build a model that allows him to predict the TTD next time a customer calls or orders via his online portal.

## Instructions

1. Produce a predictive model using the methodology you deem fit
2. Produce a short deck showing key insights, model choices and model performance
3. Use the technology stack of your choice (Python, R)

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## Deliverables

- Presentation on insights and methodical choices:
  - Presentation: 40 minutes
  - Q&A: 20 minutes

## General Guidelines Expectations

We understand that this task poses a burden on your personal life and appreciate you make the time to complete it. You are not required to understand all 'under-the-hood' algorithmic details of the methodologies and techniques you select. Our expectation is rather for you to display the ability to generate insights, substantiate your modelling choices, and surprise us with interesting insights.

Good luck!

David