**Dear Candidate,**

**We are happy to inform that you passed the initial screening. Below please find a description of three tasks to be submitted within 7 calendar days. This practical exam is an opportunity to show your skills and way of thinking. Best of Luck.**

**the Team**

**Task A**

**How to get to the final deliverable?**

1. Load the datafile (Bike.xlxs) into Python and review the data.

2. Define the business question(s) and problem(s) that you would like to address and/or solve. – what kind of interesting insights can you glean from the data to boost the business?

3. Analyze the data build a model/models

4. Create a short presentation and be ready to clearly communicate your approach, models and insights.

**Tools**: Python. / PowerPoint

**Task B**

Please imagine that you need to enhance your dataset (NPI\_initial.xlsx) with the on-line data (google reviews). Your dataset has a list of names of Health Care Providers and their NPIs, and you need to build a code that will bring ( google reviews and other information about reviewers ) for these doctors.

Please describe how would you approach this task, name possible obstacles and briefly explain your code.

**Tools:** Python code; Word doc.

**Task C**

You received a task to reduce the dimensionality of a phenomenon measured by a number of questions. Please load the score.xlsx, create the index of financial wellbeing, (you have information on the score questions in sheet2 of the score.xlsx) analyze it and suggest which questions can be omitted from the index?

**Tools:** Python code;

**Handing in the assignment** – please send  your presentation and code to Svetlana Yaroshevsky ([syaroshevsky@deloitte.co.il](mailto:syaroshevsky@deloitte.co.il)), Olena Bagno ([obagnomoldavsky@deloitte.co.il](mailto:obagnomoldavsky@deloitte.co.il)) and **Alisa Arav** [Aarav@deloitte.co.il](mailto:Aarav@deloitte.co.il)

**Any questions?** Olena Bagno ([obagnomoldavsky@deloitte.co.il](mailto:obagnomoldavsky@deloitte.co.il)) We will respond ASAP, at most within 2 days.