



Lumilinks AI and Data Workshop

Service Description

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What is a AI and Data Workshop?

AI and Data Workshop creates controlled trials that test hypotheses or explore new data science techniques. The goal is to gain new knowledge or insights that can be used to improve business performance. and test a variety of hypotheses, We use a seven step scientific data science process method. Question: What do we want to know?

Research: What is already known about this topic?

Hypothesis: What is our prediction about the outcome of the experiment?

Experiment: Design and conduct the experiment.

Data analysis: Analyse the data and draw conclusions.

Conclusion: What have we learned?

Communication: Share the findings with others.

By following these steps, we can ensure that our AI and Data Workshops are rigorous and that the results are reliable. This information can then be used to make informed decisions about business strategy and operations.

Benefits of a AI and Data Workshop

- Gaining insights from data: The service helps to gain insights from data that can be used to improve decision-making. This includes insights into customer behaviour, market trends, and product performance.
- Identifying opportunities for innovation: The service helps to identify opportunities for innovation by exploring the potential of data science for new products, services, and processes. This includes opportunities for improving efficiency, reducing costs, and increasing revenue.
- Reducing risk: The service helps to reduce risk by providing insights into the potential outcomes of different decisions. This can help businesses to make more informed decisions and avoid costly mistakes.
- Data collection and cleaning: The service can collect data from a variety of sources, including structured and unstructured data. This includes data from databases, social media, sensors, and other devices. The service can also clean and prepare the data for analysis.
- Data analysis: The service uses a variety of data analysis techniques to identify patterns and trends in the data. This includes techniques such as statistical analysis, machine learning, and natural language processing.
- Machine learning: The service uses machine learning algorithms to build predictive models that can be used to make predictions about future outcomes. This includes models for predicting customer behaviour, forecasting demand, and detecting fraud.
- Visualization: The service uses data visualization techniques to communicate the findings of the analysis to stakeholders. This includes techniques such as charts, graphs, and dashboards.

- Simplicity – Unless otherwise specified R&D includes Lumi-Credits focused on Data Science (Please see Lumi-Credits Service description for more information). This simple approach to data science allows us to successfully deliver business outcomes, without surprise project costs. (Please see the table below for quantities)

Name	Quantity(Credits)
Data Science R&D (3 Questions with Data Quality and Volume with a combined average rating of D or above)	66 (60 if a Question Research Hypotheses [QRH] has previously been purchased)

Question complexity: (Please see Data Science QRH for definitions)

Data Volume: (Please see Data Science QRH for definitions)

Data Quality: (Please see Data Science QRH for definitions)

The last section of the R&D will be a communication, typically to the senior leadership team of your company as it will often highlight the potential savings, risks or opportunities for your business that will often start the transformation process within the business to becoming data lead.

Features of a Data Science R&D

Data Science Questions Research Hypotheses QRH:

Alignment Call:

Identify any new technical, commercial and delivery stakeholders within the teams (they can be one person if you would like!) following the QRH. Establish an environment

Experiment and Data Analysis

The experiment is the process of collecting data to test our hypothesis. This data can come from a variety of sources, such as surveys, experiments, or observational data.

These are just a few of the many types of experiments that could be conducted in data science R&D. Data analysis is then performed to analyse the success of the model and how appropriate it is for answering your questions and problems your business is having/asking.

Conclusion

The conclusion is the final step in the process of conducting a research project. It is where we summarize our findings and draw conclusions about the hypothesis. We discuss the limitations of the study and the implications of the findings.

When we summarize our findings, we include the following:

- The main results of the study
- The significance of the findings

- The implications of the findings for future research

When we draw conclusions about the hypothesis, we include:

- Did the data support your hypothesis?
- If not, why not?
- What are the implications of the findings for our hypothesis?

When discussing the limitations of our study, we include the:

- Any factors that could have influenced the results
- Any areas where the study could have been improved
- Any areas where future research is needed

Communication

The final step is to communicate your findings to the stakeholders. The below is an indicative layout of a report.

Introduction

This is the section that will communicate the findings of a data science project that was conducted to address the R&D questions and highlight the key findings.

The Data science experimentation process

Here is where we detail around the data science process performed and it is broken into the following stages:

- Data collection:
- Data cleaning:
- Data analysis:
- Model building:
- Model evaluation:
- Summary

Summary of the key findings and recommendations and split into the following sections:

Call to action: is the action that is required from the business to action the desired outcome. This will help to improve customer retention and increase the profitability of the business.

Business Case and ROI

The business case and ROI section will help you build the case internally to your business so that the transformation work is seen as a Win/win. It will include the following sections:

- Business need:
- Benefits:
- Costs and ROI:
- Risks:
- Implementation plan
- Evaluation plan: