

# **Intelligent Inventory Optimization with Deep Learning and Reinforcement Learning.**

**Capston Project In Data Science IDC-6940 | Professor Dr. Shusen Pu**

Edwin I. Quijano

Tuesday, September 2, 2025

# Table of contents

<b>1 Table of Contents</b>	<b>3</b>
<b>2 Cover</b>	<b>4</b>
<b>3 table of Contents</b>	<b>5</b>
<b>4 Introduction</b>	<b>6</b>
<b>5 objectives</b>	<b>7</b>
<b>6 Data Description</b>	<b>8</b>
<b>7 06_data_processing</b>	<b>9</b>
<b>8 07_exploring_data_analysis</b>	<b>10</b>
<b>9 08_model_development</b>	<b>11</b>
<b>10 09_evaluation_metrics</b>	<b>12</b>
<b>11 10_optimization_strategies</b>	<b>13</b>
<b>12 11_results</b>	<b>14</b>
<b>13 12_conclusion</b>	<b>15</b>
<b>14 References</b>	<b>16</b>
14.1 Quarto . . . . .	16
14.2 Running Code . . . . .	16

# **1 Table of Contents**

## 2 Cover

Hello world



Figure 2.1: An elepha\_nt

### **3 table of Contents**

## **4 Introduction**

## **5 objectives**

## **6 Data Description**

## **7 06\_data\_processing**

## **8 07\_exploring\_data\_analysis**

## **9 08\_model\_development**

## **10\_09\_evaluation\_metrics**

## **11 10\_optimization\_strategies**

## **12 11\_results**

## **13 12\_conclusion**

# 14 References

## 14.1 Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

## 14.2 Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
1 + 1
```

```
[1] 2
```

You can add options to executable code like this

```
[1] 4
```

The `echo: false` option disables the printing of code (only output is displayed).