# Project "Topic: Derivatives in Neural Networks (NN)" Title
# IB3702 Mathematics for Machine Learning

Tobias Hungwe

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## 1 Introduction

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**Purpose:** Introduce the motivation and general context of the topic.

**Content**:

Text...

## 2 Preliminaries

**Purpose:** Provide the mathematical background required to understand the topic

**Content:**

Text...

## 3 Methods

**Purpose:** Explain how it works step-by-step

**Content:**

Text...

## 4 Numerical Examples

**Purpose:** Provide a small illustrative example to demonstrate it in practice.

**Content:**

Text...

## 5 Collaboration

**Purpose:** Explain how the group collaborated and divided tasks.

**Content:**

- Describe who worked on what:
  - Tobias handled ...
  - Harman handled ...
- Mention the communication method (e.g., shared documents, group meetings, GitHub, etc.).
- Reflect briefly on teamwork effectiveness.

## 6 Reflection

**Purpose:** Personal reflections on the learning experience.

**Content for person:**

### 6.1 Student a: Tobias Hungwe

- Reflect on the practical side: implementing [topic], interpreting [topic], and visualising results.
- Mention insights.
- Optionally note any challenges

### 6.2 Student b: Harman Singh

Text...

## References

[1] Ian Goodfellow, Yoshua Bengio, and Aaron Courville. *Deep Learning*. MIT Press, 2016.