

# Assignment 10 Rubric

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## Rubrics:

• **Individual Work:** This is an individual assignment. Do not use any AI tools to answer these questions. Using AI-based tools to generate answers will result in a score of 0. (You may use them as a *resource* only, not for writing solutions.)

• **Requirements for Each Question:**

For every question, you must provide:

1. **Code** that is well-structured, modular, readable, and follows a consistent style.
2. **Discussion** explaining what the code does and the approach you applied.
3. **Analysis** that briefly but insightfully covers:
  - The logic of the code.
  - Preprocessing decisions made and their rationale.
  - The effect of these decisions on the dataset.
  - Strengths, limitations, and possible improvements.

Missing any of these required items will result in a deduction of **2 points per missing item**.

• *Assignment Structure:*

The assignment contains **5 questions**, grouped into three sections:

- Read the images and perform any necessary image processing, and EDA
- Build, train, and compile Convolutional Auto Encoder
- Evaluation
- Discussion of questions in Question 5

• *Expectations per Question:*

Each question must include, except Question 5:

- Code
- A short discussion of what you did and why
- A brief analysis of your results and what you learned

• *Final Reflection:*

After **Question 5**, you must also provide a concluding paragraph describing:

- The key insights you gained from the project, and
- What you learned in general.

<b>Section</b>	<b>Question(s)</b>	<b>Total Points</b>
<b>Question 1</b>	Q1: Provide details on analysis (coding required for each question), and what do you learn from your results. Lack of coding or analysis results in -5pts for each question	10%
<b>Question 2</b>	Q2: Provide details on analysis (coding required for each question), and what do you learn from your results. Lack of coding or analysis results in -5pts for each question	20%
<b>Question 3 &amp;4</b>	Q3 & Q4: Explanation and. Coding required. Analysis of each model results + using proper parameters are required. Lack of coding or analysis results in -5pts for each question	30%
<b>Question 5</b>	Q5: Discussion of the questions in general. No need to coding Lack of coding or analysis results in -5pts for each question	20%
<b>Final Reflection</b>	Key insights & overall learning from the project	10 %
<b>Presentation &amp; Organization</b>	Code readability, structure, consistency, reproducibility	10 %
<b>TOTAL</b>		100 %