### Introduction

A decision tree is a simple method to make decisions based on predefined criteria. A scoring model assigns points based on these criteria and calculates a total score, which serves as the basis for a decision.

### The Decision Tree

Consider the following decision tree:

Ein Bild, das Text, Diagramm, Zahl, Reihe enthält.

Automatisch generierte Beschreibung

**Task**

* 1. y

### The Scoring Model

A company evaluates applications using a points-based system. The following criteria are used:

|  |  |
| --- | --- |
| **Criterion** | **Points** |
| Experience (per year) | +5 points |
| Relevant education | +10 points |
| Additional qualifications | +5 points |
| Missing relevant experience | -10 points |
| Gaps in the CV (>1 year) | -5 points |
| Positive references | +5 points |
| Certifications in IT domains | +10 points |
| Project management experience | +8 points |

**Tasks**

1. Calculate the scores for the following applicants:
   1. Applicant A: 3 years of experience, relevant education, certifications in IT domains, positive references, no gaps.
   2. Applicant B: 5 years of experience, no relevant education, no certifications, 2 years of gaps, project management experience.
2. Discuss with a partner
   1. How fair is this system?
   2. How could it be improved?

**Reflection**

1. What did you learn from analyzing the decision tree and scoring model?
2. Do you think these methods are fair and effective? Justify your opinion.