MAE4011 Assignment 1 Examiner’s Report

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | E1(a) | E1(b) | E1(c) | E1(d) | E2 | E3(a) | E3(b) | E3(c) | E3(d) |
| Morten Bredal | ✓ |  |  |  |  | ✓ | ✓ | ✓ | ✓ |
| Andrés | ✓ | ✓ | ? | ? | ✓ | ✓ | ✓ |  |  |
| Partha | ✓ |  | ? | ? |  | ✓ |  | ✓ | ✓ |
| Clifford | ✓ | ✓ | ✓ | ? | ✓ |  | ✓ | ✓ | ✓ |
| Lu | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Håkon | ✓ | ✓ | ? | ? | ✓ | ✓ | ✓ | ✓ | ✓ |
| Maria | ✓ | ✓ | ? | ✓ | ? | ✓ | ✓ |  | ✓ |
| Ingrid | ✓ | ✓ | ✓ |  |  | ✓ |  |  | ✓ |

# Morten Bredal

Morten has visited me for extra tutorials as he found himself unable to decode and manipulated mathematical symbols. He will re-attempt Exercise 1 (b)—(d) and Exercise 2. He has completed the non-mathematical parts successfully. 1f5f8

# Andrés

For Exercise 1 (c), Andrés commented on the strength of the relationship but did not mention “linear relationship”. Similarly, “linearity”, as suggested in the grading guide, was not mentioned in E1(d). The rest of his assignment went well except E3(c) and (d) where he ran out of time. He promised that he would re-submit the missing part.

# Partha

Partha appears to have conceptual error about how correlations are calculated in E1(b). He mentioned symmetry of the matrix in E1(c) but that was not what the question was asking. In E1(d), Partha (and quite a number of other candidates) mentioned the number of observations—while we are looking for key words such as “linearity”. His E2 stopped at the numerator (the Σ part) of the formula, therefore is incomplete. E3(b) contains good summary statistics but no motivation, explanation or comments.

# Clifford

Clifford’s E1(d) also asked for the number of observations while we would like to see linearity. The first paragraph of his E3(a) called internet use a ration scale, which I consider that incorrect. Other parts of Clifford’s submission are complete.

# Lu

Lu has completed every part in full.

# Håkon

In E1(c), Håkon wanted to calculate “4-item joint variance” and their “joint SD”. I would emphasise variance and SD belong to individual RVs, never one “joint with” other RVs. He also asked for the number of observations for E1(d) but not linearity. The rest of Håkon’s submission is complete.

# Maria

Maria showed minimal steps of her work but mere end results. Her correlation matrix in E1(b) is incorrect in the final row and final column. She made a causal statement in E1(c) (based on the incorrect calculation from the previous step) unwarranted by correlations. Her E2 contains minimal steps although the final result was correct. E3(c) is missing. Other parts are complete.

# Ingrid

Ingrid’s E1(d) is an incomplete sentence. She shows difficulty in manipulating binary item variances in E2. Her E3(b) and (c) R codes are not in the PDF so I grade these two sections as incomplete.