

OBUS – Gestational Age Evaluation Report

Summary

The Gestational Age (GA) model was evaluated on the main testing set, which was defined by the UNC FAMLI team (see Table 1 in [1.1 Gestational Age Data Distributions]). The scatter plot of gestational age estimation error vs ground truth gestational age is shown in Figure 1. (This is similar to a Bland-Altman plot, except here the x-axis is the ground truth gestational age.) These results are for the GA model with an EfficientNet_V2_S backbone, and the results shown here are at the exam-level; each point in the scatter plot is an exam comprising of at least two and up to six blind sweep videos, with most exams having six videos.

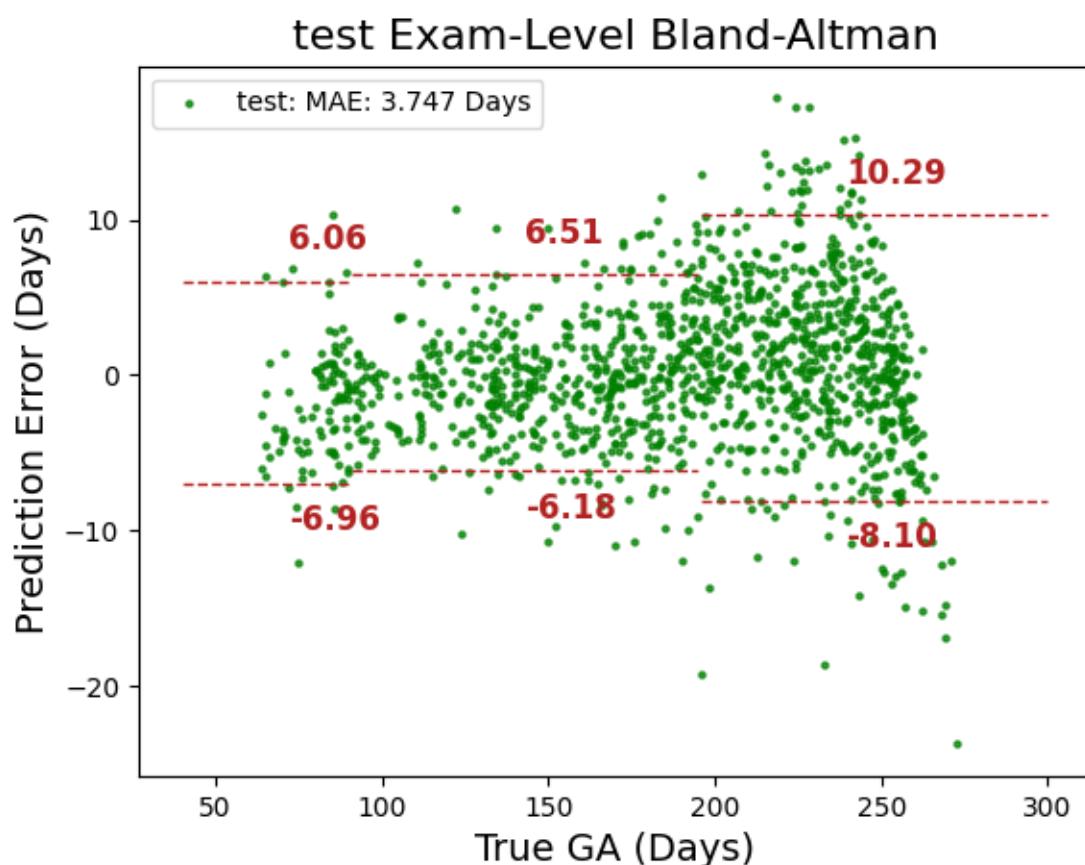


Figure 1. GA EfficientNet_V2_S results on the NEJM main testing set. The overall MAE is shown, as is the 5-95% prediction interval for each trimester.

Figure 2 shows the corresponding results for the GA model with a MobileNet_V2 backbone.

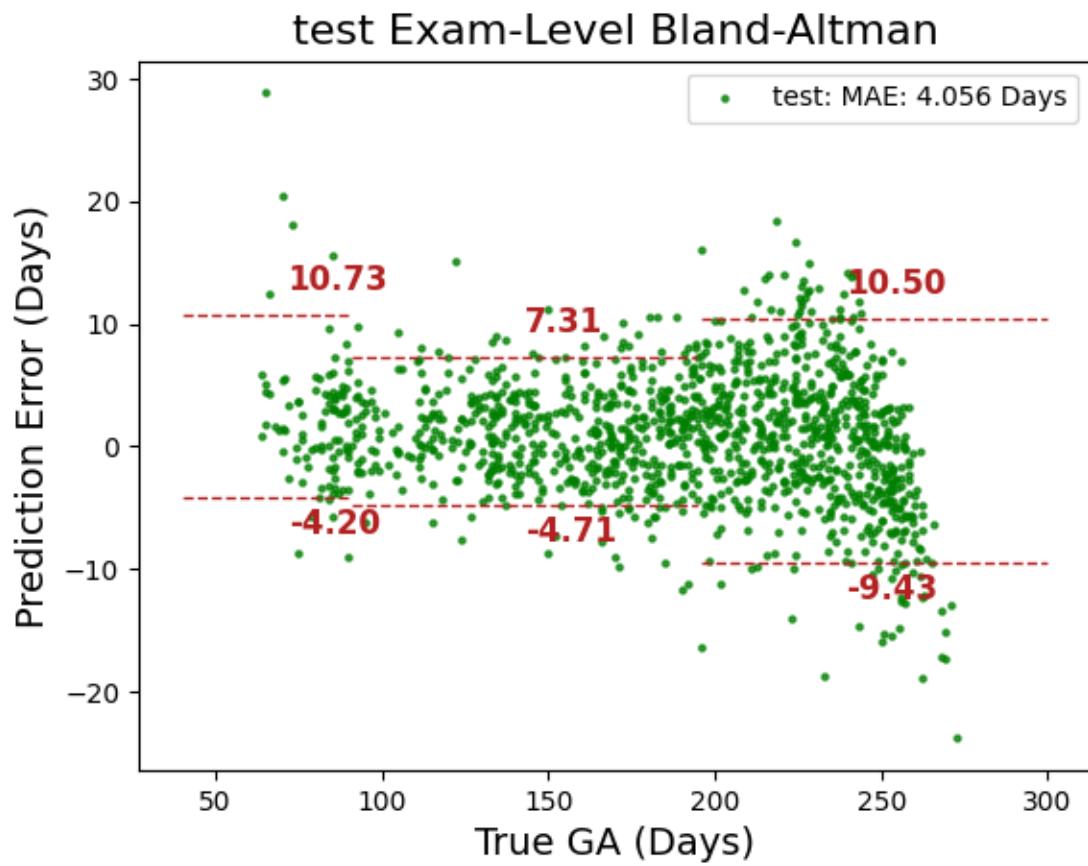


Figure 2. GA MobileNet_V2 results on the NEJM main testing set. The overall MAE is shown, as is the 5-95% prediction interval for each trimester.