

Supplementary Tabel 1. Performance comparison of ML models using different age categories. The results shown in this table indicate that as the participants age increase, the performance of the models improves, particularly in the diabetic participants. Interestingly, when the age of the participants increases, models' performance becomes the same for both healthy and diabetic participants.

Age groups	ML model used	Accuracy (%)	Precision (%)			Recall (%)		
			Healthy	Diabetic	Average	Healthy	Diabetic	Average
20≥age≤40	RF	90.98	97.98	66.67	82.33	91.07	90.47	90.77
	LightGBM	89.09	95.56	63.47	79.51	91.07	78.57	84.82
41≥age≤55	RF	88.97	94.79	75	84.90	90	85.72	87.86
	LightGBM	88.97	94.79	75	84.90	90	85.72	87.86
56≥age≤69	RF	90.90	88.89	92.30	90.60	88.89	92.30	90.60
	LightGBM	90.90	88.89	92.30	90.60	88.89	92.30	90.60

***Healthy:** control participants in the research article

***Diabetic:** cases in the research article