Анализ на всех признаках

Модель	Accuracy	AUC	Precision	Recall	F1-score	F2-score
RFClassifier	0.56 (0.80±0.02, 0.83)	0.56 (0.86±0.02, 0.76)	0.64 (0.79±0.03, 0.69)	0.26 (0.76±0.02, 0.62)	0.37 (0.77±0.02, 0.65)	0.30 (0.76±0.02, 0.63)
XGBRFClassifier	0.60 (0.82±0.03, 0.83)	0.60 (0.88±0.02, 0.81)	0.58 (0.80±0.03, 0.62)	0.72 (0.81±0.03, 0.78)	0.64 (0.81±0.03, 0.69)	0.69 (0.81±0.03, 0.74)
XGBoost	**0.65** (0.82±0.02, 0.82)	**0.65** (0.88±0.02, 0.81)	**0.63** (0.80±0.02, 0.65)	**0.71** (0.81±0.02, 0.77)	**0.67** (0.80±0.02, 0.70)	**0.69** (0.81±0.02, 0.74)
LightGBM	0.62 (0.81±0.02, 0.83)	0.62 (0.88±0.02, 0.79)	0.66 (0.79±0.02, 0.65)	0.50 (0.79±0.02, 0.72)	0.57 (0.79±0.02, 0.68)	0.53 (0.79±0.02, 0.70)
CatBoost	0.65 (0.82±0.03, 0.84)	0.65 (0.88±0.02, 0.80)	0.65 (0.80±0.02, 0.67)	0.65 (0.81±0.02, 0.74)	0.65 (0.80±0.02, 0.70)	0.65 (0.80±0.02, 0.72)
LightAutoML	0.65	0.65	0.65	0.65	0.65	0.65

Анализ на признаках, отобранных ADD-DEL и Boruta

Модель	Accuracy	AUC	Precision	Recall	F1-score	F2-score
RFClassifier	0.57 (0.80±0.01, 0.82)	0.57 (0.86±0.02, 0.76)	0.67 (0.78±0.02, 0.78)	0.27 (0.75±0.02, 0.60)	0.38 (0.76±0.02, 0.68)	0.31 (0.76±0.02, 0.63)
XGBRFClassifier	**0.61** (0.82±0.01, 0.83)	**0.61** (0.88±0.01, 0.81)	**0.58** (0.79±0.05, 0.70)	**0.81** (0.81±0.01, 0.78)	**0.68** (0.80±0.04, 0.74)	**0.75** (0.81±0.01, 0.76)
XGBoost	0.65 (0.81±0.01, 0.83)	0.65 (0.88±0.01, 0.80)	0.66 (0.79±0.01, 0.75)	0.61 (0.80±0.01, 0.71)	0.63 (0.79±0.01, 0.73)	0.62 (0.79±0.01, 0.72)
LightGBM	0.54 (0.80±0.02, 0.83)	0.54 (0.87±0.01, 0.80)	0.55 (0.78±0.02, 0.74)	0.46 (0.78±0.01, 0.70)	0.50 (0.78±0.02, 0.72)	0.48 (0.78±0.02, 0.71)
CatBoost	0.65 (0.81±0.01, 0.83)	0.65 (0.88±0.01, 0.80)	0.64 (079±0.01, 0.75)	0.69 (0.80±0.02, 0.71)	0.66 (0.79±0.01, 0.73)	0.67 (0.80±0.01, 0.72)
LightAutoML	0.81	0.81	0.70	0.81	0.75	0.78

Анализ на признаках, отобранных CatBoost

Модель	Accuracy	AUC	Precision	Recall	F1-score	F2-score
RFClassifier	0.56 (0.81±0.02, 0.83)	0.56 (0.87±0.02, 0.79)	0.64 (0.80±0.02, 0.70)	0.29 (0.77±0.02, 0.69)	0.37 (0.78±0.02, 0.69)	0.33 (0.78±0.02, 0.69)
XGBRFClassifier	**0.60** (0.82±0.01, 0.82)	**0.60** (0.88±0.02, 0.82)	**0.58** (0.80±0.02, 0.64)	**0.72** (0.81±0.02, 0.82)	**0.64** (0.80±0.03, 0.71)	**0.69** (0.81±0.03, 0.77)
XGBoost	0.62 (0.82±0.01, 0.82)	0.62 (0.89±0.02, 0.80)	0.62 (0.80±0.02, 0.64)	0.63 (0.81±0.02, 0.76)	0.67 (0.80±0.02, 0.70)	0.63 (0.80±0.02, 0.73)
LightGBM	0.62 (0.81±0.01, 0.79)	0.62 (0.88±0.02, 0.77)	0.62 (0.79±0.02, 0.61)	0.61 (0.79±0.02, 0.72)	0.57 (0.79±0.01, 0.66)	0.61 (0.79±0.01, 0.69)

CatBoost	0.64 (0.82±0.02, 0.83)	0.64 (0.88±0.02, 0.82)	0.64 (0.80±0.02, 0.68)	0.64 (0.80±0.02, 0.79)	0.65 (0.80±0.02, 0.73)	0.63 (0.80±0.02, 0.76)
LightAutoML	0.83	0.83	0.73	0.83	0.77	0.81

Анализ на признаках, отобранных ADD-DEL и Boruta, без ИМТ

Модель	Accuracy	AUC	Precision	Recall	F1-score	F2-score
RFClassifier	0.59 (0.80±0.01, 0.84)	0.59 (0.87±0.01, 0.80)	0.69 (0.78±0.02, 0.80)	0.31 (0.75±0.02, 0.68)	0.43 (0.76±0.02, 0.74)	0.35 (0.76±0.02, 0.70)
XGBRFClassifier	0.57 (0.75±0.01, 0.77)	0.57 (0.79±0.01, 0.68)	0.60 (0.72±0.01, 0.76)	0.45 (0.67±0.01, 0.42)	0.52 (0.68±0.02, 0.55)	0.48 (0.68±0.03, 0.47)
XGBoost	**0.59** (0.73±0.01, 0.77)	**0.59** (0.79±0.01, 0.71)	**0.60** (0.69±0.01, 0.68)	**0.54** (0.67±0.01, 0.53)	**0.57** (0.68±0.01, 0.60)	**0.55** (0.67±0.02, 0.56)
LightGBM	0.60 (0.72±0.01, 0.72)	0.60 (0.76±0.01, 0.68)	0.61 (0.67±0.01, 0.62)	0.52 (0.66±0.01, 0.52)	0.56 (0.67±0.01, 0.56)	0.54 (0.66±0.02, 0.53)
CatBoost	0.58 (0.74±0.01, 0.74)	0.58 (0.80±0.01, 0.69)	0.61 (0.70±0.01, 0.67)	0.46 (0.67±0.02, 0.50)	0.52 (0.68±0.02, 0.57)	0.48 (0.68±0.02, 0.53)
LightAutoML	0.75	0.75	0.62	0.75	0.68	0.72

Анализ на признаках, отобранных CatBoost, без ИМТ

Модель	Accuracy	AUC	Precision	Recall	F1-score	F2-score
RFClassifier	0.58 (0.80±0.02, 0.81)	0.58 (0.87±0.01, 0.76)	0.68 (0.78±0.02, 0.76)	0.30 (0.75±0.02, 0.62)	0.41 (0.76±0.02, 0.68)	0.33 (0.76±0.02, 0.64)
XGBRFClassifier	0.58 (0.75±0.01, 0.79)	0.58 (0.79±0.02, 0.72)	0.61 (0.72±0.02, 0.73)	0.46 (0.69±0.02, 0.54)	0.52 (0.70±0.02, 0.62)	0.49 (0.69±0.02, 0.57)
XGBoost	**0.59** (0.75±0.02, 0.77)	**0.59** (0.78±0.02, 0.70)	**0.62** (0.71±0.02, 0.69)	**0.47** (0.69±0.02, 0.51)	**0.54** (0.69±0.02, 0.59)	**0.50** (0.69±0.02, 0.54)
LightGBM	0.57 (0.75±0.01, 0.78)	0.57 (0.79±0.01, 0.71)	0.59 (0.71±0.01, 0.74)	0.45 (0.69±0.02, 0.52)	0.51 (0.69±0.01, 0.61)	0.48 (0.69±0.01, 0.55)
CatBoost	0.57 (0.75±0.01, 0.79)	0.57 (0.80±0.02, 0.72)	0.60 (0.72±0.02, 0.75)	0.42 (0.68±0.01, 0.52)	0.50 (0.69±0.02, 0.61)	0.45 (0.69±0.02, 0.55)
LightAutoML	0.78	0.78	0.66	0.78	0.72	0.76

Анализ только на основе ИМТ

Модель	Accuracy	AUC	Precision	Recall	F1-score	F2-score
RFClassifier	0.63 (0.81±0.01, 0.82)	0.63 (0.87±0.02, 0.79)	0.78 (0.78±0.01, 0.71)	0.37 (0.78±0.01, 0.71)	0.50 (0.78±0.01, 0.71)	0.41 (0.78±0.01, 0.71)
XGBRFClassifier	0.62 (0.81±0.01, 0.82)	0.62 (0.87±0.02, 0.79)	0.77 (0.78±0.01, 0.72)	0.36 (0.78±0.01, 0.71)	0.49 (0.78±0.01, 0.71)	0.40 (0.78±0.01, 0.71)
XGBoost	**0.66** (0.80±0.01,	**0.66**	**0.79**	**0.43**	**0.55**	**0.47**

	0.82)	(0.85±0.02, 0.79)	(0.78±0.01, 0.70)	(0.77±0.02, 0.74)	(0.77±0.01, 0.72)	(0.77±0.01, 0.73)
LightGBM	0.56 (0.79±0.01, 0.80)	0.56 (0.85±0.02, 0.77)	0.68 (0.76±0.01, 0.70)	0.25 (0.76±0.01, 0.67)	0.36 (0.76±0.01, 0.68)	0.29 (0.76±0.01, 0.67)
CatBoost	0.59 (0.81±0.01, 0.82)	0.59 (0.87±0.02, 0.79)	0.73 (0.78±0.01, 0.72)	0.29 (0.78±0.01, 0.70)	0.42 (0.78±0.01, 0.71)	0.33 (0.78±0.01, 0.70)