cA screenshot of a computer

Description automatically generatedA graph of different colored lines

Description automatically generated

performance: {'accuracy': 0.97226, 'precision': 0.9647061874384109, 'recall': 0.9634070544362149, 'f1\_score': 0.9640561832694102}

Variance of Numerical Features:

Num\_Children: 1.9882564969649696

Income: 528038693.06598526

Fairness Metrics:

Attribute: Gender

Statistical Parity: {'Female': 0.19601761056633982, 'Male': 0.574995002998201}

Equal Opportunity (TPR): {'Female': 0.9280804350056427, 'Male': 0.9753351577926352}

Equalized Odds (TPR): {'Female': 0.9280804350056427, 'Male': 0.9753351577926352}

Equalized Odds (FPR): {'Female': 0.01862118688312657, 'Male': 0.02891839531257383}

Attribute: Own\_Car

Statistical Parity: {'No': 0.28793045804078904, 'Yes': 0.42730774718219433}

Equal Opportunity (TPR): {'No': 0.943731377492551, 'Yes': 0.9691514989293362}

Equalized Odds (TPR): {'No': 0.943731377492551, 'Yes': 0.9691514989293362}

Equalized Odds (FPR): {'No': 0.0177964501510574, 'Yes': 0.024476394209243323}

Attribute: Own\_Housing

Statistical Parity: {'No': 0.318763397642015, 'Yes': 0.4847100873709293}

Equal Opportunity (TPR): {'No': 0.9543662268019557, 'Yes': 0.9721839432450365}

Equalized Odds (TPR): {'No': 0.9543662268019557, 'Yes': 0.9721839432450365}

Equalized Odds (FPR): {'No': 0.021650979332039025, 'Yes': 0.023194008214544575}

Attribute: Income\_Category

Statistical Parity: {'High': 0.7320634196418387, 'Medium': 0.001139288577577113}

Equal Opportunity (TPR): {'High': 0.9690815714695378, 'Medium': 0.10980392156862745}

Equalized Odds (TPR): {'High': 0.9690815714695378, 'Medium': 0.10980392156862745}

Equalized Odds (FPR): {'High': 0.09373025345783893, 'Medium': 0.000551513480262181}

Subgroup Accuracy by Sensitive Attribute:

Attribute: Gender

Male: 0.9735358784729162

Female: 0.9709825895537323

Attribute: Own\_Car

Yes: 0.9728063917819946

No: 0.970979605483116

Attribute: Own\_Housing

Yes: 0.974558181096108

No: 0.9707094051446945

Attribute: Income\_Category

High: 0.9520740656248812

Medium: 0.994662222034685