

100

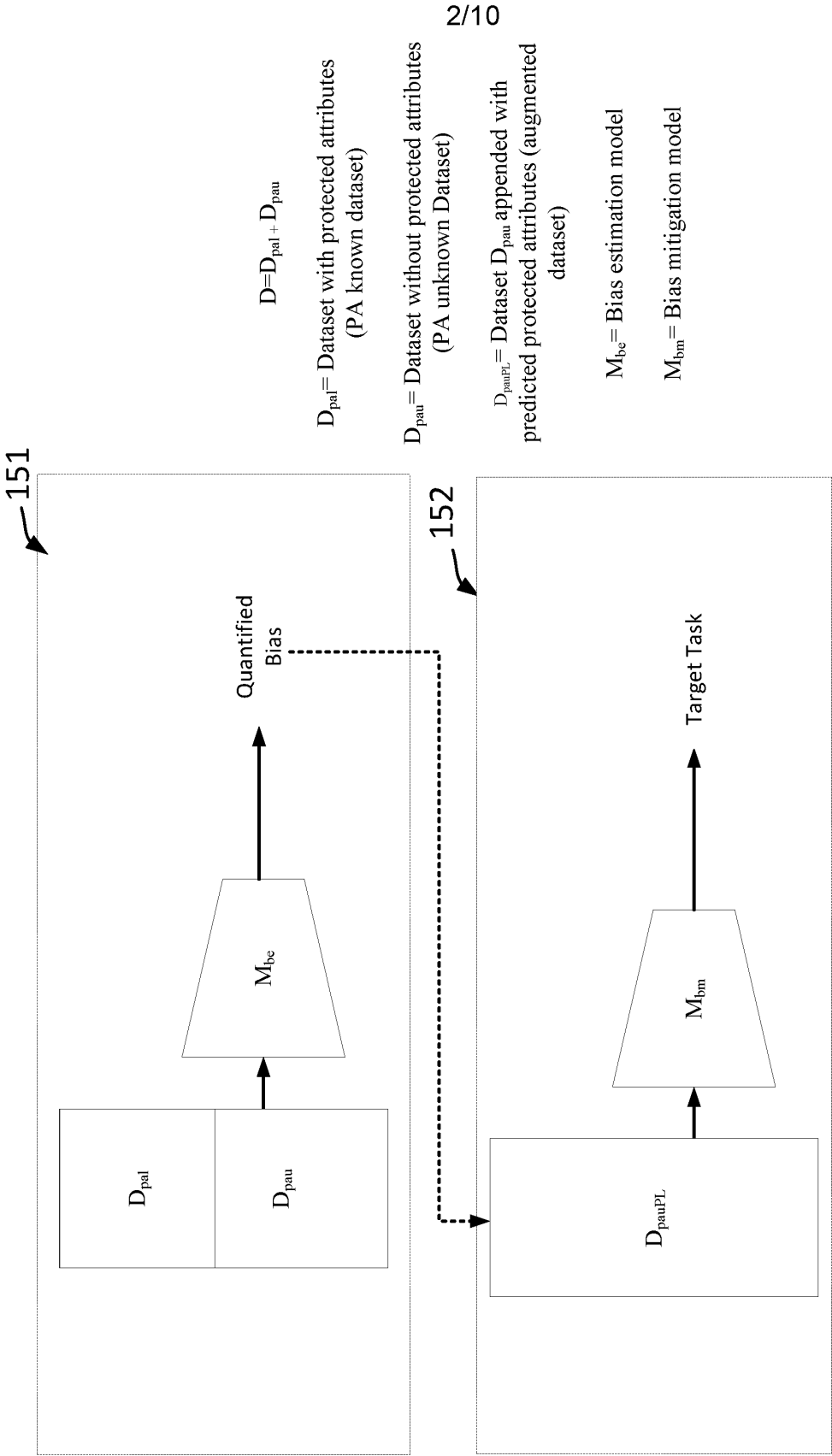
199

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110	111	112	113	114	115	116	117	118	119	120
ID	Toy_Name	Color	Shape	Manufacturer	Material_Type	Age_Group	Price (\$)	Country of Origin	Supply Chain Method	Demand
1	MagicBlocks	Red	Cube	ToyMakers	Plastic	3-5	10	USA	Direct Distribution	High
2	RaceyCars	Blue	Car	FunCrafters	Metal	4-6	20	Japan	Third-party Logistics	Medium
3	StarryDoll	Yellow	Humanoid	DollShc	Fabric	4-9	15	China	Direct Distribution	Low
4	PuzzleSphere	Green	Sphere	ThinkToys	Wood	3-7	18	Canada	Retail Distribution	Medium
5	DinoRoar	Purple	Dinosaur	ToyMakers	Plastic	1-4	22	UK	Third-party Logistics	High
6	TeddyBuddy	Brown	Bear	PlushPalac	Fabric	6-12	25	Australia	Retail Distribution	High
7	RobotZoom	Silver	Robot	FunCrafters	Metal	4-8	30	Germany	Direct Distribution	Medium
8	AquaMermaid	Aqua	Mermaid	DollShc	Plastic	5-10	27	Brazil	Retail Distribution	Low
9	FairyWings	Pink	Fairy	DreamWor	Fabric	2-6	29	Spain	Third-party Logistics	High

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8	AquaMermaid	Aqua	Mermaid	DollShc	Plastic	5-10	27			Low
9	FairyWings	Pink	Fairy	DreamWor	Fabric	2-6	29			High

FIG. 1A



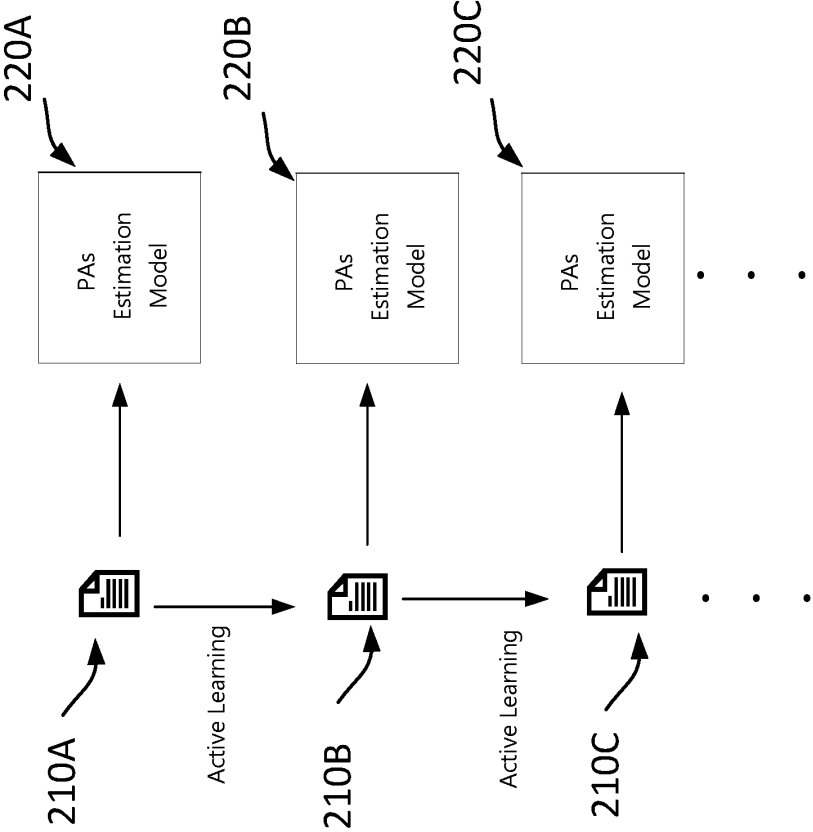


FIG. 2

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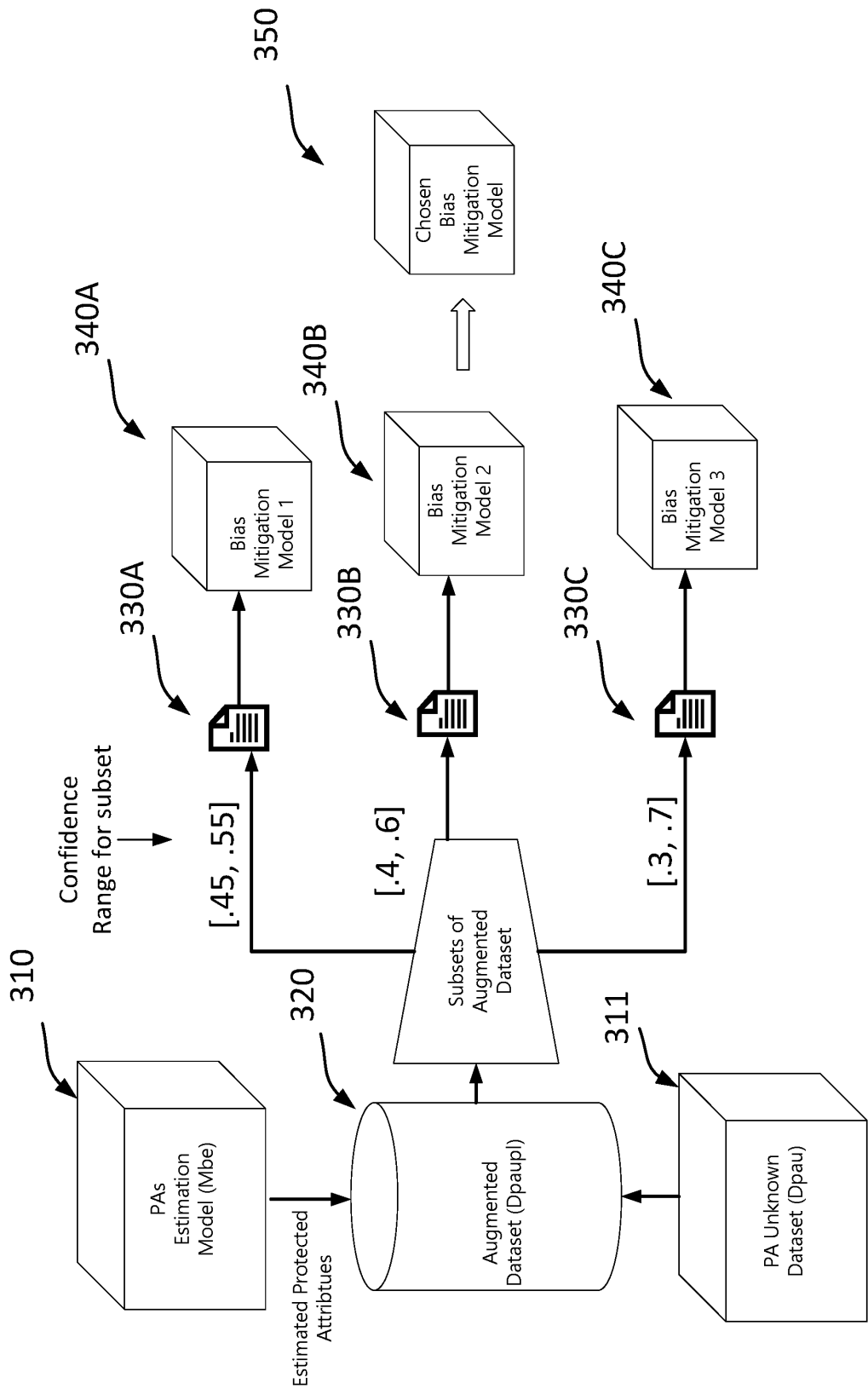


FIG. 3

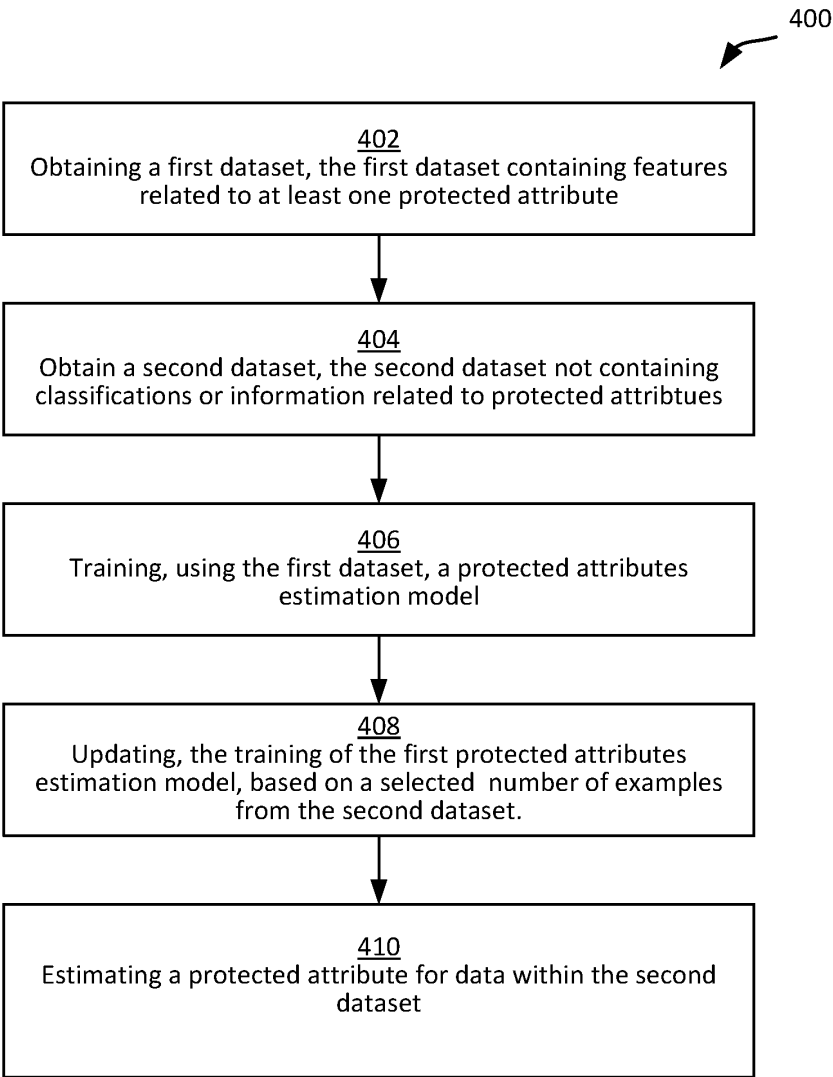


FIG. 4

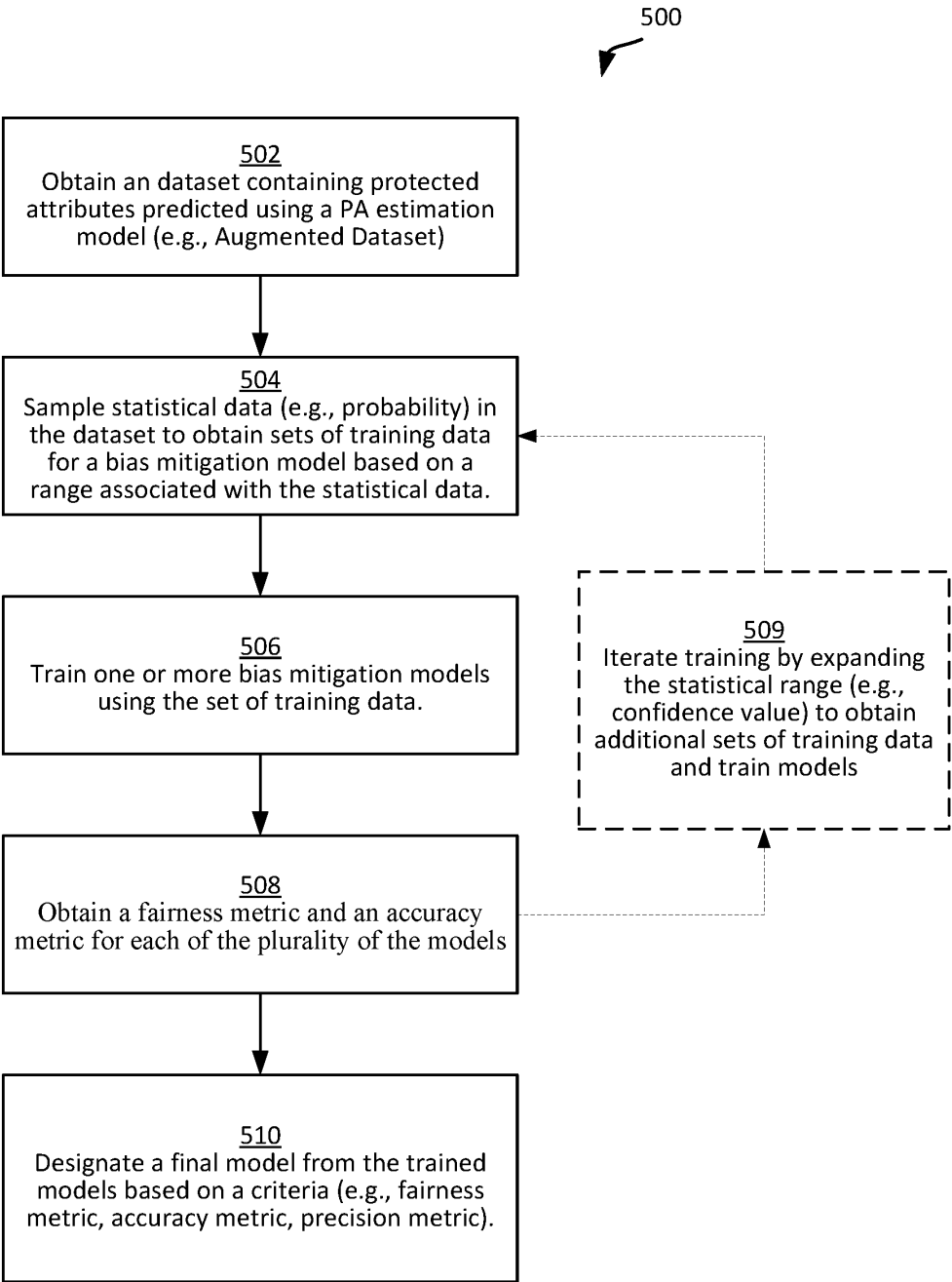


FIG. 5

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Datasets	Expr. type	Models	LR					RF					XGB				
			Prec.	F1-score	DI	EOD	EQP	Prec.	F1-score	DI	EOD	EQP	Prec.	F1-score	DI	EOD	EQP
Adult Income	w. proxies	Baseline	0.572	0.672	0.318	0.208	0.214	0.774	0.682	0.298	0.103	0.145	0.776	0.710	0.320	0.084	0.103
		DR	0.568	0.657	0.401	0.158	0.172	0.786	0.620	0.395	0.024	0.012	0.811	0.653	0.412	0.011	0.007
		Reweighting	0.564	0.751	0.599	0.012	0.038	0.775	0.783	0.455	0.002	0.023	0.782	0.797	0.57	0.068	0.146
		Disclosed without k_{ed}	0.520	0.614	0.777	0.055	0.110	0.845	0.365	0.628	0.046	0.096	0.823	0.357	0.522	0.011	0.024
	Disclosed with k_{ed}	0.556	0.569	0.828	0.057	0.083	0.882	0.414	0.509	0.024	0.049	0.836	0.385	0.531	0.018	0.037	
	w/o proxies	Baseline	0.507	0.603	0.641	0.064	0.080	0.742	0.573	0.496	0.029	0.050	0.775	0.624	0.445	0.036	0.056
		DR	0.487	0.583	0.711	0.044	0.069	0.693	0.456	0.540	0.013	0.018	0.744	0.523	0.476	0.012	0.097
		Reweighting	0.492	0.702	0.822	0.014	0.005	0.731	0.736	0.539	0.026	0.056	0.763	0.739	0.534	0.005	0.010
Disclosed without k_{ed}		0.501	0.561	0.926	0.054	0.041	0.692	0.483	0.645	0.026	0.049	0.755	0.529	0.470	0.012	0.010	
DCCC	w. proxies	Disclosed with k_{ed}	0.536	0.565	0.767	0.013	0.002	0.733	0.487	0.555	0.001	0.004	0.693	0.509	0.611	0.002	0.000
		Baseline	0.872	0.808	1.484	0.189	0.240	0.844	0.895	1.074	0.058	0.032	0.843	0.892	1.078	0.050	0.048
		DR	0.871	0.830	1.227	0.089	0.145	0.842	0.896	1.057	0.034	0.031	0.840	0.892	1.053	0.040	0.019
		Reweighting	0.871	0.655	1.059	0.03	0.013	0.844	0.691	1.082	0.056	0.047	0.837	0.672	1.061	0.052	0.022
	Disclosed without k_{ed}	0.862	0.855	1.131	0.073	0.072	0.854	0.888	1.050	0.036	0.022	0.837	0.853	1.102	0.067	0.068	
	Disclosed with k_{ed}	0.873	0.703	1.704	0.178	0.249	0.836	0.889	1.044	0.029	0.018	0.844	0.874	1.045	0.020	0.022	
	w/o proxies	Baseline	0.871	0.847	1.224	0.107	0.132	0.844	0.893	1.081	0.050	0.031	0.844	0.894	1.071	0.046	0.041
		DR	0.870	0.844	1.309	0.139	0.182	0.840	0.894	1.061	0.026	0.048	0.845	0.895	1.093	0.070	0.047
Reweighting		0.870	0.661	1.058	0.027	0.015	0.841	0.652	1.059	0.038	0.031	0.839	0.677	1.053	0.036	0.024	
Disclosed without k_{ed}		0.865	0.885	1.123	0.072	0.070	0.859	0.886	1.031	0.010	0.014	0.84	0.891	1.102	0.076	0.050	
		Disclosed with k_{ed}	0.564	0.769	1.448	0.159	0.213	0.853	0.888	1.044	0.029	0.020	0.829	0.854	1.030	0.013	0.015

FIG. 6

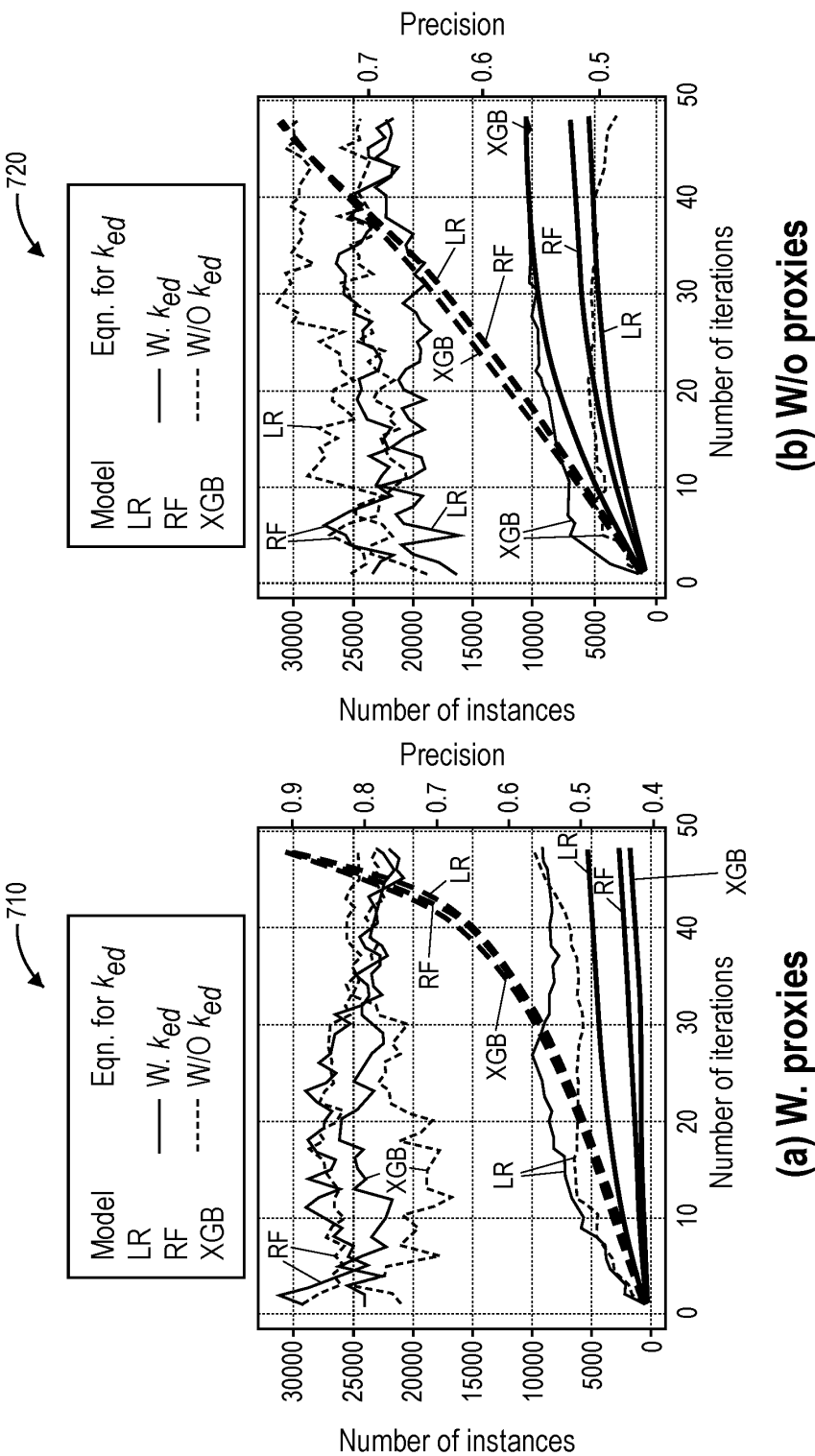


FIG. 7

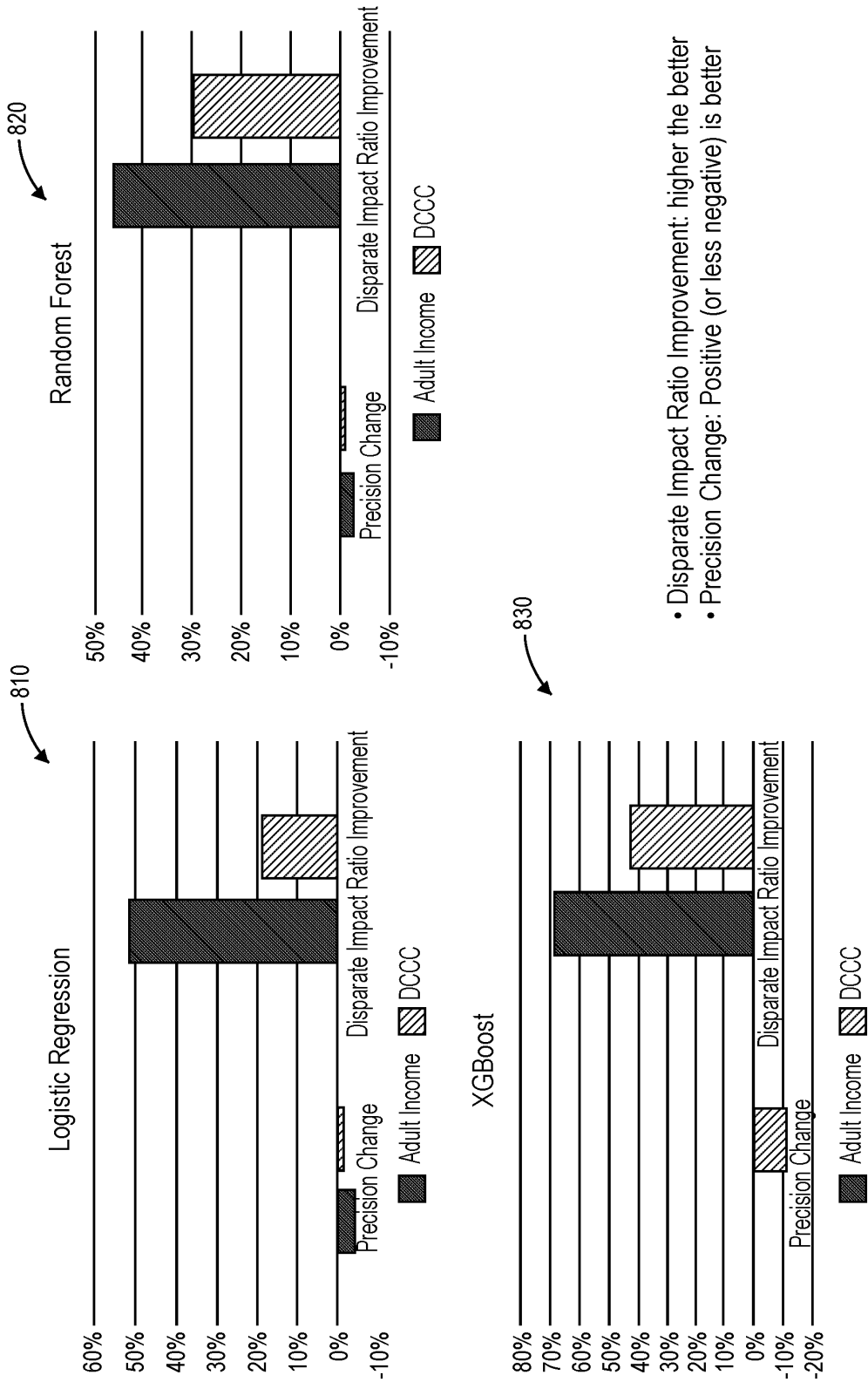


FIG. 8

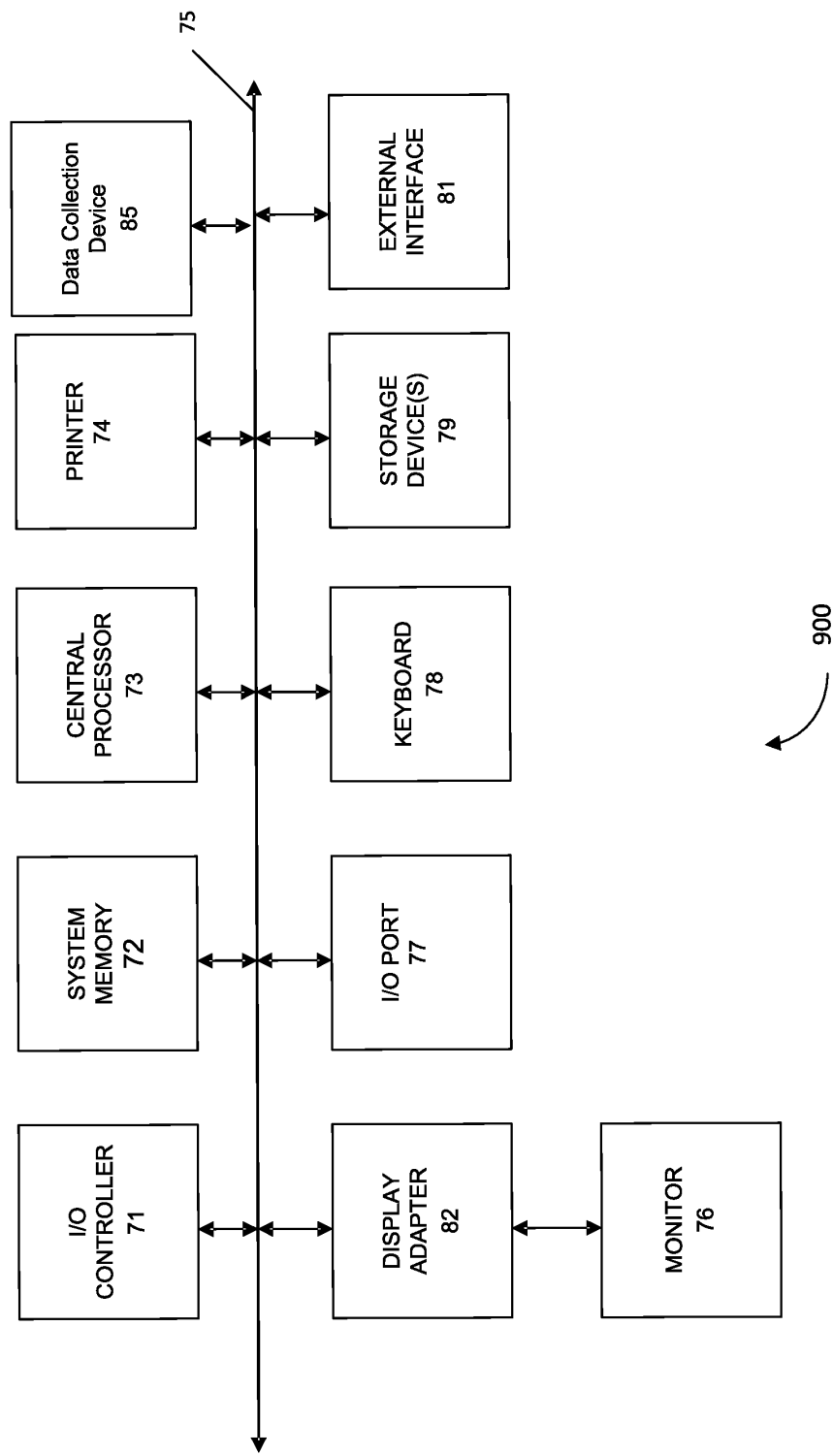


FIG. 9