Table II – Experimental results (extended)

ecoli2

	Metrics	C4.5	C5.0	XGB	GLM	1-NN	ecoli2 3-NN	5-NN	NB	NN	RF	SVM
BASE	F1 / GM	.786 / .797	.825 / .831	.735 / .748	.666 / .684	.832 / .836	.859 / .865	<b>.894</b> / .898	.469 / .543	.690 / .713	.815 / .826	.859 / .865
	AUROC / AUPRC F1 / GM	.849 / .730 .788 / .794	.935 / .875 .809 / .813	.930 / .825 .778 / .788	.938 / .849 .720 / .739	.912 / .745 .832 / .836	.949 / .885 .730 / .745	.952 / .911 .713 / .733	.939 / .816 .390 / .481	.937 / .845 .782 / .794	.967 / .911 .824 / .831	.962 / .905 .846 / .850
ROS	AUROC / AUPRC	.882 / .627	.964 / .900	.954 / .888	.937 / .837	.912 / .745	.935 / .765	.938 / .783	.936 / .815	.941 / .840	.960 / .913	.962 / .921
SMOTE	F1 / GM AUROC / AUPRC	.763 / .773 .858 / .556	.800 / .804 .957 / .875	.755 / .766 .945 / .881	.747 / .762 .936 / .843	.773 / .782 .903 / .654	.763 / .774 .936 / .780	.774 / .785 .942 / .843	.514 / .578 .944 / .845	.768 / .781 .936 / .846	.836 / .840 .969 / .927	.886 / .889 .963 / .917
D.C.I. C.	F1 / GM	.758 / .767	.820 / .823	.755 / .766	.741 / .748	.832 / .836	.858 / .861	.873 / .876	.569 / .621	.738 / .746	.821 / .830	.892 / .895
RSLS	AUROC / AUPRC	.862 / .679	.962 / .902	.941 / .840	.937 / .845	.912 / .745	.948 / .873	.951 / .900	.938 / .828	.939 / .850	.960 / .918	.956 / .897
TOP+V	F1 / GM AUROC / AUPRC	.811 / .821 .869 / .752	<b>.877</b> / .881 .957 / .900	.794 / .805 .912 / .819	.728 / .733 .931 / .838	.832 / .836 .912 / .745	.870 / .875 .950 / .890	<b>.894</b> / .898 .952 / .911	.469 / .543 .939 / .816	.759 / .765 .911 / .818	<b>.875</b> / .880 .954 / .892	<b>.905</b> / .908 .969 / .905
TOP+	F1 / GM	.832 / .843	<b>.877</b> / .881	.785 / .796	.738 / .745	.846 / .851	.870 / .875	<b>.894</b> / .898	.469 / .543	.746 / .755	.850 / .858	<b>.905</b> / .908
ROSE TOP+	AUROC / AUPRC F1 / GM	.864 / .764 .811 / .821	.957 / .900 .877 / .881	.925 / .855 .787 / .795	.939 / .850 .730 / .738	.930 / .756 . <b>846</b> / .851	.950 / .890 .870 / .875	.951 / .896 . <b>894</b> / .898	.939 / .816 .522 / .584	.933 / .841 .748 / .765	.973 / .922 .857 / .862	.976 / .913 .894 / .897
SMOTE	AUROC / AUPRC	.869 / .752	.957 / .900	.951 / .886	.935 / .837	.930 / .756	.950 / .890	.951 / .896	.945 / .834	.952 / .859	.970 / .911	.968 / .914
TOP+	F1 / GM	.811 / .821	.877 / .881	.816 / .823	.743 / .760	<b>.846</b> / .851	.870 / .875	.894 / .898	.617 / .659	.769 / .782	.868 / .873	.894 / .897
RSLS	AUROC / AUPRC F1 / GM	.869 / .752 .812 / .819	.957 / .900 .801 / .807	.949 / .899 .723 / .739	.939 / .852 .732 / .742	.930 / .756 .836 / .842	.950 / .890 .778 / .788	.951 / .896 .865 / .868	.950 / .876 .434 / .515	.937 / .837 .725 / .737	.978 / .926 .852 / .858	.968 / .914 .886 / .889
OVUN	AUROC / AUPRC	.876 / .719	.950 / .876	.935 / .832	.935 / .838	.921 / .749	.940 / .813	.948 / .872	.939 / .831	.937 / .839	.965 / .900	.960 / .908
ROSE	F1 / GM AUROC / AUPRC	.275 / .399 .518 / .160	.275 / .399 .518 / .160	.428 / .515 .937 / .848	.737 / .755 .934 / .801	.633 / .666 .863 / .472	.677 / .704 .928 / .729	.673 / .701 .944 / .784	.342 / .447 .946 / .866	.728 / .744 .934 / .797	.311 / .425 .945 / .854	.769 / .781 .952 / .889
DDCM*	F1 / GM	.767 /	.518 / .100	.93 / / .646	.934 / .801	.803 / .4/2	.928 / .729	.944 / .784	.946 / .866	.934 / ./97	.943 / .834	.932 / .889
DBSM*	AUROC / AUPRC	.894 /	/	/	/	/	/	/	/	/	/	/
							glass0					
	Metrics	C4.5	C5.0	XGB	GLM	1-NN	3-NN	5-NN	NB	NN	RF	SVM
BASE	F1 / GM AUROC / AUPRC	.704 / .714 .772 / .629	.747 / .755 .904 / .863	.670 / .678 .871 / .754	.595 / .604 .818 / .668	.711 / .717 .785 / .625	.663 / .672 .847 / .709	.692 / .694 .880 / .773	.622 / .654 .762 / .573	.634 / .639 .828 / .696	.787 / .794 .937 / .901	.688 / .696 .874 / .776
ROS	F1 / GM	.721 / .732	.786 / .793	.763 / .774	.638 / .648	.711 / .717	.727 / .739	.708 / .722	.635 / .669	.692 / .701	.780 / .789	.743 / .754
KUS	AUROC / AUPRC	.792 / .655	.898 / .848	.903 / .824	.812 / .659	.785 / .625	.843 / .678	.856 / .714	.760 / .588	.825 / .640	.929 / .870	.886 / .800
SMOTE	F1 / GM AUROC / AUPRC	.675 / .684 .724 / .550	.768 / .772 .900 / .836	.691 / .706 .896 / .800	.622 / .630 .816 / .667	.718 / .725 .792 / .620	.709 / .716 .853 / .701	.717 / .729 .866 / .715	.622 / .654 .766 / .580	.650 / .663 .818 / .628	.807 / .812 .931 / .879	.724 / .733 .879 / .785
RSLS	F1 / GM	.708 / .717	.781 / .786	.711 / .720	.614 / .622	.714 / .721	.685 / .690	.691 / .700	.620 / .653	.659 / .671	.814 / .819	.738 / .745
	AUROC / AUPRC F1 / GM	.764 / .579 .759 / .773	.923 / .868 .806 / .815	.897 / .801 .747 / .757	.809 / .661 .713 / .727	.789 / .615 .745 / .753	.852 / .698 . <b>748</b> / .757	.866 / .730 .743 / .751	.764 / .577 .661 / .700	.825 / .662 .714 / .734	.934 / .881 .831 / .836	.878 / .781 .743 / .751
TOP+V	AUROC / AUPRC	.826 / .638	.918 / .865	.867 / .750	.817 / .656	.817 / .648	.876 / .730	.889 / .783	.762 / .560	.815 / .650	.938 / .888	.854 / .740
TOP+	F1 / GM	.743 / .754	.763 / .772	.741 / .752	.652 / .667	.711 / .717	.716 / .739	.732 / .748	.658 / .698	.692 / .708	.819 / .822	.704 / .713
ROSE TOP+	AUROC / AUPRC F1 / GM	.819 / .633 .724 / .736	.911 / .838 .747 / .755	.913 / .849 .730 / .741	.816 / .673 .659 / .675	.785 / .625 .711 / .717	.858 / .696 .716 / .739	.862 / .715 .732 / .748	.756 / .548 .658 / .698	.822 / .664 .695 / .711	.939 / .874 .799 / .806	.869 / .784 .712 / .722
SMOTE	AUROC / AUPRC	.815 / .611	.904 / .863	.901 / .822	.816 / .671	.785 / .625	.856 / .694	.863 / .716	.756 / .548	.828 / .677	.940 / .885	.884 / .805
TOP+ RSLS	F1 / GM AUROC / AUPRC	.724 / .736 .815 / .611	.747 / .755 .904 / .863	.741 / .754 .902 / .823	.659 / .675 .816 / .671	.711 / .717 .785 / .625	.716 / .739 .856 / .694	.732 / .748 .863 / .716	.658 / .698 .756 / .548	.692 / .708 .830 / .680	.806 / .812 .937 / .875	.710 / .721 .879 / .800
OVUN	F1 / GM	.716 / .725	.763 / .774	.689 / .699	.606 / .615	.700 / .705	.687 / .692	.686 / .689	.625 / .656	.643 / .649	.775 / .781	.684 / .690
OVOIN	AUROC / AUPRC F1 / GM	.780 / .609 .644 / .682	.892 / .822 .639 / .680	.871 / .758 .631 / .676	.816 / .666 .640 / .658	.778 / .606 .607 / .648	.851 / .717 .631 / .679	.877 / .767 .623 / .673	.788 / .606	.830 / .689 .637 / .679	.934 / .895 .636 / .678	.878 / .782 .641 / .680
ROSE	AUROC / AUPRC	.729 / .484	.823 / .635	.818 / .685	.792 / .612	.688 / .450	.715 / .472	.729 / .497	.636 / .678 .751 / .574	.800 / .624	.789 / .596	.814 / .665
DBSM*	F1 / GM	.711 /	/	/	/	/	/	/	/	/	/	/
	AUROC / AUPRC	.788 /	/	/	/	/	/	/	/	/	/	/
	Metrics		I				glass1		1		r	
	Metrics F1 / GM	C4.5 608 / 629	C5.0 679 / 693	XGB 590 / 611	GLM 435 / 460	1-NN 783 / 789	3-NN	5-NN 716 / 724	NB 612 / 645	NN 663 / 678	RF 731 / 742	SVM 602 / 611
BASE	F1 / GM AUROC / AUPRC	.608 / .629 .735 / .646	.679 / .693 .860 / .754	.590 / .611 .828 / .746	.435 / .460 .703 / .564	.783 / .789 .832 / .762	3-NN .709 / .718 .879 / .817	.716 / .724 .895 / .814	.612 / .645 .714 / .569	.663 / .678 .852 / .755	.731 / .742 .915 / .866	.602 / .611 .789 / .699
BASE ROS	F1 / GM AUROC / AUPRC F1 / GM	.608 / .629 .735 / .646 .621 / .628	.679 / .693 .860 / .754 .720 / .728	.590 / .611 .828 / .746 .690 / .699	.435 / .460 .703 / .564 .575 / .592	.783 / .789 .832 / .762 .778 / .787	3-NN .709 / .718 .879 / .817 .751 / .756	.716 / .724 .895 / .814 .732 / .740	.612 / .645 .714 / .569 .606 / .646	.663 / .678 .852 / .755 .672 / .690	.731 / .742 .915 / .866 .771 / .782	.602 / .611 .789 / .699 .612 / .619
ROS	F1 / GM AUROC / AUPRC	.608 / .629 .735 / .646	.679 / .693 .860 / .754	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617	.435 / .460 .703 / .564	.783 / .789 .832 / .762 .778 / .787 .827 / .771 .783 / .789	3-NN .709 / .718 .879 / .817	.716 / .724 .895 / .814	.612 / .645 .714 / .569	.663 / .678 .852 / .755	.731 / .742 .915 / .866	.602 / .611 .789 / .699
	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745	.435 / .460 .703 / .564 .575 / .592 .715 / .578 .435 / .460 .703 / .564	.783 / .789 .832 / .762 .778 / .787 .827 / .771 .783 / .789 .832 / .762	3-NN .709 / .718 .879 / .817 .751 / .756 .883 / .824 .709 / .718 .879 / .817	.716 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .814	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786	.731 / .742 .915 / .866 .771 / .782 .914 / .866 .760 / .776 .904 / .858	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721
ROS	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617	.435 / .460 .703 / .564 .575 / .592 .715 / .578 .435 / .460	.783 / .789 .832 / .762 .778 / .787 .827 / .771 .783 / .789	3-NN .709 / .718 .879 / .817 .751 / .756 .883 / .824 .709 / .718	.716 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651	.731 / .742 .915 / .866 .771 / .782 .914 / .866 .760 / .776	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609
ROS SMOTE RSLS	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761	.435 / .460 .703 / .564 .575 / .592 .715 / .578 .435 / .460 .703 / .564 .576 / .590 .706 / .569	.783 / .789 .832 / .762 .778 / .787 .827 / .771 .783 / .789 .832 / .762 .783 / .787 .832 / .750 .819 / .824	3-NN .709 / .718 .879 / .817 .751 / .756 .883 / .824 .709 / .718 .879 / .817 .755 / .759 .887 / .826 .757 / .762	.716 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748	731 / .742 .915 / .866 .771 / .782 .914 / .866 .760 / .776 .904 / .858 .778 / .787 .907 / .843 .805 / .810	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654
ROS SMOTE RSLS TOP+V	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648	.435 / .460 .703 / .564 .575 / .592 .715 / .578 .435 / .460 .703 / .564 .576 / .590 .706 / .569 .621 / .640 .719 / .552	783 / .789 832 / .762 778 / .787 827 / .771 783 / .789 832 / .762 783 / .787 832 / .750 819 / 824 .864 / .784	3-NN .709 / .718 .879 / .817 .751 / .756 .883 / .824 .709 / .718 .879 / .817 .755 / .759 .887 / .826 .757 / .762 .895 / .826	.716 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .813	731 / 742 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 <b>.805</b> / 810 921 / .875	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676
ROS SMOTE RSLS TOP+V TOP+ ROSE	F1/GM AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793	.435 / .460 .703 / .564 .575 / .592 .715 / .578 .435 / .460 .703 / .564 .576 / .590 .706 / .569 .621 / .640 .719 / .552 .612 / .644 .727 / .597	783 / .789 .832 / .762 .778 / .787 .827 / .771 .783 / .789 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753	3-NN .709 / .718 .879 / .817 .751 / .756 .883 / .824 .709 / .718 .879 / .817 .755 / .759 .887 / .826 .757 / .762 .895 / .826 .776 / .781 .892 / .830	.716 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .813 .683 / .703	731 / 742 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 913 / 870	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611	679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657	.435 / .460 .703 / .564 .575 / .592 .715 / .578 .435 / .460 .703 / .564 .576 / .590 .621 / .640 .719 / .552 .612 / .644 .727 / .597 .600 / .639	.783 / .789 .832 / .762 .778 / .787 .827 / .771 .783 / .789 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802	3-NN .709 / 718 .879 / .817 .751 / .756 .883 / .824 .709 / .718 .879 / .817 .755 / .759 .887 / .826 .757 / .762 .895 / .826 .776 / .781 .892 / .830 .772 / .777	.716 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .813 .683 / .703 .848 / .716	731 / 742 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .903 / .854 .750 / .756	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .693 / .707 .693 / .707 .656 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682		.783 / .789 .832 / .762 .778 / .787 .827 / .771 .783 / .789 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798	3-NN .709 / .718 .879 / .817 .751 / .756 .883 / .824 .709 / .718 .879 / .817 .755 / .759 .887 / .826 .757 / .762 .895 / .826 .776 / .781 .892 / .830 .772 / .777 .885 / .814 .772 / .777	716 / .724 .895 / .814 732 / .740 .875 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .706 / .566	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .813 .683 / .703 .848 / .716 .703 / .714 .851 / .743 .703 / .711	731 / 742 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 913 / 870 772 / 774 908 / 855 771 / 773	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS	F1/GM AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .903 / .854 .750 / .756 .902 / .845	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777	.435 / .460 .703 / .564 .575 / .592 .715 / .578 .435 / .460 .703 / .564 .576 / .590 .706 / .569 .621 / .640 .719 / .552 .612 / .644 .727 / .597 .600 / .639 .724 / .599 .605 / .643 .726 / .660	.783 / .789 .832 / .762 .778 / .787 .827 / .771 .783 / .789 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740	3-NN .709 / .718 .879 / .817 .751 / .756 .883 / .824 .709 / .718 .879 / .817 .755 / .759 .887 / .826 .757 / .762 .895 / .826 .776 / .781 .892 / .830 .772 / .777 .885 / .814 .772 / .777 .888 / .820	.716 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .657	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .813 .683 / .703 .848 / .716 .703 / .714 .851 / .743 .703 / .711 .849 / .774	731 / 742 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .903 / .854 .750 / .756	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .693 / .707 .693 / .707 .656 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682		.783 / .789 .832 / .762 .778 / .787 .827 / .771 .783 / .789 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798	3-NN .709 / .718 .879 / .817 .751 / .756 .883 / .824 .709 / .718 .879 / .817 .755 / .759 .887 / .826 .757 / .762 .895 / .826 .776 / .781 .892 / .830 .772 / .777 .885 / .814 .772 / .777	716 / .724 .895 / .814 732 / .740 .875 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .706 / .566	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .813 .683 / .703 .848 / .716 .703 / .714 .851 / .743 .703 / .711	731 / 742 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 913 / 870 772 / 774 908 / 855 771 / 773	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS	F1/GM AUROC/AUPRC F1/GM	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .903 / .854 .750 / .756 .902 / .845 .760 / .767 .906 / .865 .567 / .582	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648	.435 / .460 .703 / .564 .575 / .592 .715 / .578 .435 / .460 .703 / .564 .576 / .590 .706 / .569 .621 / .640 .719 / .552 .612 / .644 .727 / .597 .600 / .639 .724 / .599 .605 / .643 .726 / .600 .524 / .541 .735 / .603 .442 / .447	.783 / .789 .832 / .762 .778 / .787 .827 / .771 .783 / .789 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740 .787 / .793 .836 / .761	3-NN .709 / 718 .879 / .817 .751 / .756 .883 / .824 .709 / .718 .879 / .817 .755 / .759 .887 / .826 .757 / .762 .895 / .826 .776 / .781 .892 / .830 .772 / .777 .885 / .814 .772 / .777 .888 / .820 .731 / .741 .878 / .817	716 / .724 895 / .814 732 / .740 .875 / .811 716 / .724 .895 / .814 760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .657 .683 / .554 .597 / .636 .646 / .514	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .813 .683 / .703 .848 / .716 .703 / .714 .851 / .743 .703 / .711 .849 / .774 .669 / .688 .857 / .788 .647 / .665	731 / 742 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .709 .611 / .615 .798 / .719 .588 / .606
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE	F1/GM AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .903 / .834 .750 / .756 .902 / .845 .760 / .767 .906 / .865	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753		.783 / .789 .832 / .762 .778 / .787 .827 / .771 .783 / .789 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740 .787 / .793 .836 / .761	3-NN -709 / 718 -879 / 817 -751 / 756 -883 / 824 -709 / 718 -879 / 817 -755 / 759 -887 / 826 -757 / 762 -895 / 826 -776 / 781 -892 / 830 -772 / 777 -888 / 820 -731 / 741 -878 / 817	716 / .724 .895 / .814 732 / .740 .875 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .657 .683 / .554 .597 / .636	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .813 .683 / .703 .848 / .716 .703 / .714 .851 / .743 .703 / .711 .849 / .774 .669 / .688 .857 / .788	731 / 742 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709 .611 / .615 .798 / .719
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN	F1/GM AUROC/AUPRC F1/GM	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .664 .578 / .604	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .903 / .854 .750 / .756 .902 / .845 .760 / .767 .906 / .865 .567 / .582 .699 / .535	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610	.435 / .460 .703 / .564 .575 / .592 .715 / .578 .435 / .460 .703 / .564 .576 / .590 .706 / .569 .621 / .640 .719 / .552 .612 / .644 .727 / .597 .600 / .639 .724 / .599 .605 / .643 .726 / .660 .524 / .541 .735 / .603 .442 / .447	.783 / .789 .832 / .762 .778 / .787 .827 / .771 .783 / .789 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740 .787 / .793 .836 / .761 .625 / .642 .695 / .505	3-NN .709 / 718 .879 / 817 .751 / 756 .883 / 824 .709 / 718 .879 / 817 .755 / 759 .887 / 826 .757 / 762 .895 / 826 .776 / 781 .892 / 830 .772 / 777 .885 / 814 .772 / 777 .888 / 820 .731 / 741 .878 / 817 .646 / 666 .736 / .557	.716 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635 .720 / .549	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .706 / .566 .618 / .657 .683 / .554 .597 / .636 .646 / .514 .594 / .638 .724 / .597	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .813 .683 / .703 .848 / .716 .703 / .714 .851 / .743 .703 / .711 .849 / .774 .669 / .688 .857 / .788 .647 / .665 .747 / .669	731 / 742 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE	FI/GM AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646 .578 / .604 .578 / .604	679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .889 / .841 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .839 .757 / .766 .903 / .854 .750 / .756 .902 / .845 .760 / .767 .906 / .865 .567 / .582 .699 / .535	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610		783 / 789 832 / 762 778 / 787 827 / 771 783 / 789 832 / 762 783 / 787 832 / 762 783 / 787 832 / 750 819 / 824 864 / 784 792 / 798 842 / 753 792 / 802 847 / 691 797 / 798 845 / 740 787 / 793 836 / 761 625 / 642 695 / 505	3-NN -709 / 718 -879 / 817 -751 / 756 -883 / 824 -709 / 718 -879 / 817 -755 / 759 -887 / 826 -757 / 762 -895 / 826 -776 / 781 -892 / 830 -772 / 777 -888 / 820 -731 / 741 -878 / 817 -646 / .666 -736 / .557 /	716 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635 .720 / .549 /	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .657 .683 / .554 .597 / .636 .646 / .514	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .738 .864 / .716 .703 / .714 .851 / .743 .703 / .711 .849 / .774 .669 / .688 .857 / .788 .647 / .665 .747 / .665	731 / 742 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE	FI/GM AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646 .578 / .664 .578 / .664 .771 /	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .829 .757 / .766 .902 / .845 .760 / .767 .906 / .865 .567 / .582 .699 / .535 /	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610		7.83 / .789 .832 / .762 .778 / .787 .827 / .771 .783 / .789 .832 / .762 .783 / .787 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740 .787 / .793 .836 / .761 .625 / .642 .695 / .505 /	3-NN .709 / .718 .879 / .817 .751 / .756 .883 / .824 .709 / .718 .879 / .817 .755 / .759 .887 / .826 .757 / .762 .895 / .826 .776 / .781 .892 / .830 .772 / .777 .885 / .814 .772 / .777 .888 / .820 .731 / .741 .878 / .817 .646 / .666 .736 / .557 /	716 / .724 .895 / .814 732 / .740 .875 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635 .720 / .549 /	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .657 .683 / .554 .597 / .636 .646 / .514 .594 / .638 .724 / .597	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .748 .726 / .738 .848 / .716 .703 / .714 .851 / .743 .703 / .714 .851 / .743 .703 / .714 .8549 / .774 .669 / .688 .857 / .788 .647 / .665 .747 / .669 /	731 / 742 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607 /	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE	F1/GM AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .640 .578 / .604 .643 / .478 .710 /777 /	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .902 / .845 .760 / .767 .906 / .865 .567 / .582 .699 / .535 /	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610		783 / 789 832 / 762 778 / 787 827 / 771 783 / 789 832 / .761 783 / 789 832 / .762 783 / 787 832 / .750 819 / 824 864 / .784 792 / .792 / .892 842 / .753 792 / .892 847 / .691 797 / .798 845 / .740 787 / .793 836 / .761 625 / .642 695 / .505 / 1-NN 864 / .875	3-NN .709 / .718 .879 / .817 .751 / .756 .883 / .824 .709 / .718 .879 / .817 .755 / .759 .887 / .826 .757 / .762 .895 / .826 .776 / .781 .892 / .830 .772 / .777 .885 / .814 .772 / .777 .888 / .820 .731 / .741 .878 / .817 .646 / .666 .736 / .557/////	7.16 / .724 8.95 / .814 7.32 / .740 8.75 / .811 7.16 / .724 8.95 / .814 7.60 / .765 8.97 / .832 7.71 / .775 9.03 / .822 7.52 / .759 9.04 / .811 7.44 / .755 9.12 / .839 7.70 / .779 9.10 / .826 7.46 / .754 8.899 / .821 6.14 / .635 7.20 / .549	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .657 .683 / .554 .597 / .636 .646 / .514 .594 / .638 .724 / .597	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .813 .683 / .703 .848 / .716 .703 / .714 .849 / .774 .669 / .688 .857 / .788 .647 / .665 .747 / .669	731 / 742 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607 / RF  RF 886 / 895	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*	F1/GM AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646 .578 / .604 .578 / .604 .578 / .604 .576 / .781 .790 / .805 .763 / .781	679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .902 / .845 .750 / .756 .902 / .845 .750 / .757 .906 / .865 .567 / .582 .699 / .535	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610		7.83 / .789 .832 / .762 .778 / .787 .827 / .771 .783 / .789 .832 / .762 .783 / .787 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740 .787 / .793 .836 / .761 .625 / .642 .695 / .505 / / / /	3-NN .709 / 718 .879 / 817 .751 / 756 .883 / 824 .709 / 718 .879 / 817 .755 / 759 .887 / 826 .757 / 762 .895 / 826 .776 / 781 .892 / 830 .772 / 777 .885 / 814 .772 / 777 .888 / 820 .731 / 741 .878 / 817 .646 / .666 .736 / .557	716 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635 .720 / .549 /	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .716 / .570 .683 / .554 .597 / .638 .724 / .594 .638 / .744 / .594 .744 / .594 .744 / .597	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .738 .864 / .716 .703 / .714 .851 / .743 .703 / .711 .849 / .774 .669 / .688 .857 / .788 .647 / .665 .747 / .669	731 / 742 915 / 866 771 / 782 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607 / RF  886 / 895 979 / 962 886 / 895	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632 /
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*	F1/GM AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646 .578 / .660 .578 / .660 .578 / .660 .578 / .660 .578 / .660 .578 / .660 .578 / .660 .578 / .660 .578 / .663 .710 /777 /777 /	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .902 / .845 .750 / .757 .906 / .865 .567 / .582 .699 / .535 /	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610		.783 / .789 .832 / .762 .778 / .787 .827 / .771 .783 / .789 .832 / .762 .783 / .787 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740 .787 / .793 .836 / .761 .625 / .642 .695 / .505 / / / / 1-NN .864 / .875 .917 / .813	3-NN .709 / 718 .879 / 817 .751 / 756 .883 / 824 .709 / 718 .879 / 817 .755 / 759 .887 / 826 .757 / 762 .895 / 826 .776 / 781 .892 / 830 .772 / 777 .885 / 814 .772 / 777 .888 / 820 .731 / 741 .878 / 817 .646 / 666 .736 / 557 /	7.16 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635 .720 / .549 / / / / /	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .596 / .541 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .657 .683 / .554 .597 / .636 .646 / .514 .594 / .638 .724 / .597 /	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .748 .703 / .714 .851 / .743 .703 / .711 .849 / .774 .669 / .688 .857 / .788 .647 / .665 .747 / .669	731 / 742 915 / 866 771 / 782 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607 /  RF  886 / 895 979 / 962 886 / 895 970 / 922	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632 / .
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*	F1/GM AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646 .578 / .604 .578 / .604 .578 / .604 .576 / .781 .790 / .805 .763 / .781	679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .902 / .845 .750 / .756 .902 / .845 .750 / .757 .906 / .865 .567 / .582 .699 / .535	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610		7.83 / .789 .832 / .762 .778 / .787 .827 / .771 .783 / .789 .832 / .762 .783 / .787 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740 .787 / .793 .836 / .761 .625 / .642 .695 / .505 / / / /	3-NN .709 / 718 .879 / 817 .751 / 756 .883 / 824 .709 / 718 .879 / 817 .755 / 759 .887 / 826 .757 / 762 .895 / 826 .776 / 781 .892 / 830 .772 / 777 .885 / 814 .772 / 777 .888 / 820 .731 / 741 .878 / 817 .646 / .666 .736 / .557	716 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635 .720 / .549 /	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .716 / .570 .683 / .554 .597 / .638 .724 / .594 .638 / .724 / .597 /	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .738 .864 / .716 .703 / .714 .851 / .743 .703 / .711 .849 / .774 .669 / .688 .857 / .788 .647 / .665 .747 / .669	731 / 742 915 / 866 771 / 782 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607 / RF  886 / 895 979 / 962 886 / 895	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632 / /
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*	F1/GM AUROC/AUPRC F1/GM	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .640 .578 / .604 .643 / .478 .710 /777 /777 /777 /778 / .805 .763 / .781 .852 / .624 .789 / .805 .882 / .721 .824 / .835	679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .903 / .854 .750 / .756 .902 / .845 .760 / .767 .906 / .865 .567 / .582 /	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610 / / XGB .858 / .871 .961 / .895 .869 / .878 .967 / .933 .850 / .858 .964 / .930 .883 / .891	435 / .460 .703 / .564 .575 / .592 .715 / .578 .435 / .460 .703 / .564 .576 / .590 .706 / .569 .621 / .640 .719 / .552 .612 / .644 .727 / .597 .600 / .639 .724 / .599 .605 / .643 .726 / .600 .524 / .541 .735 / .603 .442 / .447 .647 / .479 /	7.83 / .789 .832 / .762 .778 / .787 .832 / .762 .778 / .787 .832 / .761 .783 / .789 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740 .787 / .793 .836 / .761 .625 / .642 .695 / .505 /	3-NN 709 / 718 879 / 817 751 / 756 883 / 824 709 / 718 879 / 817 755 / 759 887 / 826 757 / 762 885 / 826 776 / 781 892 / 830 772 / 777 888 / 820 731 / 741 878 / 817 646 / 666 736 / 557 / glass6 3-NN 805 / 819 920 / 878 782 / 789 913 / 808 859 / 867 939 / 850	7.16 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635 .720 / .549 / /	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .657 .683 / .554 .597 / .636 .646 / .514 .594 / .638 .724 / .597 ////////	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .716 .703 / .714 .851 / .743 .703 / .714 .851 / .743 .703 / .714 .857 / .788 .647 / .665 .747 / .669	731 / 742 915 / 866 771 / 782 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607 /  RF  886 / 895 979 / 962 886 / 895 970 / 922 891 / 900 970 / 942 891 / 900	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632 / .
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS	F1/GM AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .713 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646 .578 / .604	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .903 / .854 .750 / .757 .760 / .767 .906 / .865 .567 / .582 .699 / .535 /	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610		783 / .789 832 / .762 778 / .787 827 / .771 783 / .789 832 / .762 783 / .789 832 / .762 783 / .787 832 / .750 819 / .824 864 / .784 792 / .798 842 / .753 792 / .802 847 / .691 797 / .798 845 / .740 787 / .793 836 / .761 625 / .642 695 / .505 / 1-NN 864 / .875 917 / .813 864 / .875 917 / .813 886 / .896 939 / .838	3-NN .709 / 718 .879 / 817 .751 / 756 .883 / 824 .709 / 718 .879 / 817 .755 / 759 .887 / 826 .757 / 762 .895 / 826 .776 / 781 .892 / 830 .772 / 777 .885 / 814 .772 / 777 .885 / 814 .772 / 777 .887 / 817 .646 / 666 .736 / 557 /	7.16 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635 .720 / .549 / / /	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .618 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .557 .683 / .554 .597 / .636 .646 / .514 .594 / .638 .724 / .597 /	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .813 .683 / .703 .848 / .716 .703 / .714 .851 / .743 .703 / .714 .851 / .743 .703 / .711 .849 / .774 .669 / .688 .857 / .788 .647 / .665 .747 / .609	731 / 742 915 / 866 771 / 782 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607 / /  RF 886 / 895 979 / 962 886 / 895 970 / 922 881 / 900 970 / 942	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632 /
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V	F1/GM AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646 .578 / .604 .602 / .602 .602 /	679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .902 / .845 .750 / .756 .902 / .845 .750 / .757 .906 / .865 .567 / .582 .699 / .535 /	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610/	435 / .460 .703 / .564 .575 / .592 .715 / .578 .435 / .460 .703 / .564 .576 / .590 .706 / .569 .621 / .640 .719 / .552 .612 / .644 .727 / .597 .600 / .639 .724 / .599 .605 / .643 .726 / .600 .524 / .541 .735 / .603 .442 / .447 .647 / .479 / .	7.83 / .789 .832 / .762 .778 / .787 .832 / .762 .783 / .789 .832 / .762 .783 / .787 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740 .787 / .793 .836 / .761 .625 / .642 .695 / .505 / / / /  1-NN .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813	3-NN .709 / 718 .879 / 817 .751 / 756 .883 / 824 .709 / 718 .879 / 817 .755 / 759 .887 / 826 .757 / 762 .895 / 826 .776 / 781 .892 / 830 .772 / 777 .885 / 814 .772 / 777 .885 / 814 .772 / 777 .886 / 857 .892 / 830 .731 / 741 .878 / 817 .646 / .666 .736 / .557	7.16 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635 .720 / .549 /	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .657 .683 / .554 .597 / .638 .724 / .597 /	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .743 .703 / .714 .851 / .743 .703 / .714 .851 / .743 .703 / .714 .669 / .688 .857 / .788 .647 / .665 .747 / .669	731 / 742 915 / 866 771 / 782 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607 /  RF  886 / 895 979 / 992 886 / 895 970 / 992 891 / 900 982 / 970 926 / 932 991 / 946	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632 /
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS	F1/GM AUROC/AUPRC F1/GM	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646 .578 / .660 .578 / .660 .578 / .660 .578 / .660 .578 / .667 .777 /777 /777 /777 /789 / .805 .763 / .781 .852 / .624 .789 / .805 .763 / .781 .852 / .624 .789 / .805 .783 / .838 .934 / .775 .870 / .876	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .903 / .854 .750 / .756 .902 / .845 .760 / .767 .906 / .865 .567 / .582 /	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610///////.		7.83 / .789 .832 / .762 .778 / .787 .832 / .762 .778 / .789 .832 / .761 .783 / .789 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740 .787 / .793 .836 / .761 .625 / .642 .695 / .505 /	3-NN	7.16 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635 .720 / .549 /	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .657 .683 / .554 .597 / .636 .646 / .514 .594 / .638 .724 / .597 ////////////	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .748 .703 / .714 .851 / .743 .703 / .711 .849 / .774 .669 / .688 .857 / .788 .647 / .665 .747 / .669	731 / 742 915 / 866 771 / 782 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607 /  RF 886 / 895 979 / 962 886 / 895 970 / 922 891 / 900 982 / 970 926 / 932 974 / 946 996 / 913	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632 / .
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V	F1/GM AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646 .578 / .604 .604 / .604 .504 /	679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .902 / .845 .750 / .756 .902 / .845 .750 / .757 .906 / .865 .567 / .582 .699 / .535 /	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610/	435 / .460 .703 / .564 .575 / .592 .715 / .578 .435 / .460 .703 / .564 .576 / .590 .706 / .569 .621 / .640 .719 / .552 .612 / .644 .727 / .597 .600 / .639 .724 / .599 .605 / .643 .726 / .600 .524 / .541 .735 / .603 .442 / .447 .647 / .479 / .	7.83 / .789 .832 / .762 .778 / .787 .832 / .762 .778 / .787 .832 / .762 .783 / .789 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740 .787 / .793 .836 / .761 .625 / .642 .695 / .505	3-NN .709 / 718 .879 / 817 .751 / 756 .883 / 824 .709 / 718 .879 / 817 .755 / 759 .887 / 826 .757 / 762 .895 / 826 .776 / 781 .892 / 830 .772 / 777 .885 / 814 .772 / 777 .885 / 814 .772 / 777 .886 / 857 .892 / 830 .731 / 741 .878 / 817 .646 / .666 .736 / .557	7.16 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635 .720 / .549 /	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .657 .683 / .554 .597 / .636 .594 / .638 .724 / .597 /	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .743 .703 / .714 .851 / .743 .703 / .714 .851 / .743 .703 / .714 .669 / .688 .857 / .788 .647 / .665 .747 / .669	731 / 742 915 / 866 771 / 782 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607 /  RF  886 / 895 979 / 992 886 / 895 970 / 992 891 / 900 982 / 970 926 / 932 991 / 946	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632 /
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+V TOP+ ROSE	F1/GM AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646 .578 / .604 .643 / .478 .710 /777 /  C4.5 .766 / .781 .852 / .624 .789 / .805 .763 / .781 .852 / .624 .789 / .805 .839 / .822 .830 / .838 .934 / .775 .870 / .876 .937 / .805 .839 / .849 .902 / .766	679 / 693 860 / 754 720 / 728 869 / 841 679 / 693 860 / 754 782 / 785 889 / 841 679 / 693 860 / 754 782 / 785 896 / 833 798 / 804 899 / 829 757 / 766 903 / 854 750 / 756 902 / 845 760 / 767 906 / 865 567 / 582 699 / 535 /  C5.0 868 / 879 933 / 896 883 / 891 958 / 918 912 / 917 953 / 928 896 / 908 965 / 927 868 / 879 933 / 885 945 / 918 898 / 903 953 / 904	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610///////	435 / .460 .703 / .564 .575 / .592 .715 / .578 .435 / .460 .703 / .564 .576 / .590 .706 / .569 .621 / .640 .719 / .552 .612 / .644 .727 / .597 .600 / .639 .724 / .599 .605 / .643 .726 / .600 .524 / .541 .735 / .603 .442 / .447 .647 / .479 / .	7.83 / .789 .832 / .762 .778 / .787 .832 / .762 .778 / .787 .832 / .761 .783 / .789 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740 .787 / .793 .836 / .761 .625 / .642 .695 / .505 / / / /  1-NN .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813 .864 / .875 .917 / .813	3-NN 709 / 718 879 / 817 751 / 756 883 / 824 709 / 718 879 / 817 755 / 759 887 / 826 757 / 762 885 / 826 776 / 781 892 / 830 772 / 777 885 / 814 772 / 777 888 / 820 731 / 741 878 / 817 646 / .666 736 / .557	7.16 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .812 .752 / .755 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635 .720 / .549 / /	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .7114 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .657 .683 / .554 .597 / .636 .646 / .514 .594 / .638 .724 / .597///  NB .844 / .853 .930 / .783 .844 / .853 .930 / .783 .844 / .853 .930 / .783 .844 / .853 .930 / .783 .844 / .853 .930 / .783 .844 / .853 .930 / .783 .844 / .853 .930 / .783	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .848 / .716 .703 / .714 .851 / .743 .703 / .711 .849 / .774 .669 / .688 .857 / .788 .647 / .665 .747 / .669	731 / 742 915 / 866 771 / 782 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607 /  RF 886 / 895 979 / 962 886 / 895 970 / 922 891 / 900 982 / 970 926 / 932 974 / 946 906 / 913 953 / 917 926 / 932 989 / 939	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632 /
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+V TOP+ ROSE TOP+	F1/GM AUROC/AUPRC F1/GM	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646 .578 / .604 .604 / .604 .504 /	6.79 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .834 .769 / .776 .899 / .834 .750 / .756 .902 / .845 .750 / .756 .902 / .845 .750 / .756 .902 / .845 .750 / .758 .902 / .845 .750 / .758 .868 / .879 .933 / .896 .883 / .891 .958 / .918 .912 / .917 .953 / .928 .896 / .908 .873 / .885 .945 / .901 .898 / .903	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .646 / .682 .839 / .777 .649 / .641 .843 / .753 .628 / .648 .734 / .610	435 / .460 .703 / .564 .575 / .592 .715 / .578 .435 / .460 .703 / .564 .576 / .590 .706 / .569 .621 / .640 .719 / .552 .612 / .644 .727 / .597 .600 / .639 .724 / .599 .605 / .643 .726 / .600 .524 / .541 .735 / .603 .442 / .447 .647 / .479 /	7.83 / .789 .832 / .762 .778 / .787 .832 / .762 .778 / .787 .832 / .762 .783 / .789 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740 .787 / .793 .836 / .761 .625 / .642 .695 / .505	3-NN .709 / 718 .879 / 817 .751 / 756 .883 / 824 .709 / 718 .879 / 817 .755 / 759 .887 / 826 .757 / 762 .895 / 826 .776 / 781 .892 / 830 .772 / 777 .885 / 814 .772 / 777 .885 / 814 .772 / 777 .888 / 820 .731 / 741 .878 / 817 .646 / .666 .736 / .557	7.16 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635 .720 / .549	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .657 .683 / .554 .597 / .636 .594 / .638 .724 / .597 /	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .738 .864 / .716 .703 / .714 .851 / .743 .703 / .711 .849 / .774 .669 / .688 .857 / .788 .647 / .665 .747 / .665 .747 / .699	731 / 742 915 / 866 771 / 782 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607 / /  RF  886 / 895 979 / 962 886 / 895 979 / 962 886 / 895 970 / 922 891 / 900 970 / 942 891 / 900 970 / 942 891 / 900 970 / 942 891 / 900 970 / 942 891 / 900 970 / 942 891 / 900 970 / 942 891 / 900 970 / 942 891 / 900 970 / 942 891 / 900 970 / 942 891 / 900 970 / 942 891 / 900 970 / 942 891 / 900 970 / 942 891 / 900 970 / 942 891 / 900 970 / 942 891 / 900 970 / 942 891 / 900	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632 /
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+V TOP+ ROSE TOP+V TOP+ ROSE TOP+SMOTE	F1/GM AUROC/AUPRC F1/GM	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646 .578 / .604 .578 / .605 .578 / .604 .579 / .805 .882 / .721 .824 / .835 .939 / .822 .830 / .838 .934 / .775 .870 / .876 .829 / .841 .900 / .726 .797 / .805	6.79 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .902 / .845 .750 / .756 .902 / .845 .750 / .757 .906 / .865 .567 / .582 .699 / .535 /	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610////////	435 / .460 .703 / .564 .575 / .592 .715 / .578 .435 / .460 .703 / .564 .576 / .590 .706 / .569 .621 / .640 .719 / .552 .612 / .644 .727 / .597 .600 / .639 .724 / .599 .605 / .643 .726 / .600 .524 / .541 .735 / .603 .442 / .447 .647 / .479 / .	7.83 / .789 .832 / .762 .778 / .787 .832 / .762 .778 / .787 .832 / .762 .783 / .789 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740 .787 / .793 .836 / .761 .625 / .642 .695 / .505 / / /  1-NN .864 / .875 .917 / .813 .864 / .875	3-NN .709 / 718 .879 / 817 .751 / 756 .883 / 824 .709 / 718 .879 / 817 .755 / 759 .887 / 826 .757 / 762 .895 / 826 .776 / 781 .892 / 830 .772 / 777 .885 / 814 .772 / 777 .885 / 814 .772 / 777 .885 / 814 .772 / 777 .885 / 814 .772 / 777 .885 / 814 .772 / 777 .885 / 814 .772 / 777 .885 / 814 .772 / 777 .885 / 819 .915 / 828 .859 / 867 .939 / 850 .805 / 819 .915 / 828 .800 / 826 .915 / 828 .850 / 838 .939 / 850 .820 / 826 .939 / 850 .820 / 826 .939 / 830 .820 / 828 .839 / 830 .820 / 828 .839 / 830 .839 / 830 .839 / 830 .839 / 830 .839 / 830 .839 / 830 .839 / 830 .839 / 830 .839 / 830 .839 / 830 .839 / 830 .839 / 830 .830 / 838 .839 / 830 .830 / 838 .830 / 838 .830 / 838 .830 / 838 .830 / 838 .830 / 838 .830 / 838 .830 / 838 .830 / 838 .830 / 838 .830 / 838	7.16 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635 .720 / .549	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .657 .683 / .554 .597 / .638 .724 / .597 / / /	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .748 .726 / .738 .848 / .716 .703 / .714 .851 / .743 .703 / .711 .8449 / .774 .669 / .688 .857 / .788 .647 / .665 .747 / .665 .747 / .669	731 / 742 915 / 866 771 / 782 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607 /  RF 886 / 895 979 / 992 891 / 900 982 / 970 926 / 932 989 / 939 926 / 932 989 / 939 926 / 932 969 / 937 872 / 884	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632 /
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ ROSE TOP+ SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ SMOTE TOP+ RSLS OVUN	F1/GM AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .629 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646 .578 / .660 .579 / .865 .576 / .781 .5870 / .876 .5870 / .876 .5870 / .876 .5870 / .766 .5829 / .841 .5900 / .726 .5900 / .737	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .903 / .854 .750 / .756 .902 / .845 .760 / .767 .906 / .865 .567 / .582 .699 / .335 /	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610///////.	## A35 / 460 ## A35 / 669 ## A35 / 661 ## A35 / 663 ## A35 / 862 ## A3	7.83 / .789 .832 / .762 .778 / .787 .832 / .762 .778 / .789 .832 / .761 .783 / .789 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740 .787 / .793 .836 / .761 .625 / .642 .695 / .505 /	3-NN 709 / 718 879 / 817 751 / 756 883 / 824 709 / 718 887 / 817 755 / 759 887 / 826 757 / 762 885 / 826 776 / 781 889 / 830 772 / 777 888 / 820 731 / 741 878 / 817 646 / 666 736 / 557 / glass6 3-NN 805 / 819 920 / 878 8782 / 789 913 / 808 859 / 867 939 / 850 805 / 819 915 / 828 805 / 819 920 / 878 820 / 826 915 / 828 850 / 826 915 / 828 850 / 828	7.16 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .814 .716 / .724 .895 / .814 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635 .720 / .549 /	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .657 .683 / .554 .597 / .636 .646 / .514 .594 / .638 .724 / .597 / / / / / / /	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .748 .703 / .714 .851 / .743 .703 / .711 .849 / .774 .669 / .688 .857 / .788 .647 / .665 .747 / .669	731 / 742 915 / 866 771 / 782 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607 /  RF 886 / 895 979 / 962 886 / 895 979 / 962 886 / 895 970 / 922 891 / 900 982 / 970 926 / 932 974 / 946 906 / 913 953 / 917 926 / 932 989 / 939 926 / 932 969 / 937 872 / 884 993 / 959	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632 / .
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+V TOP+ ROSE TOP+V TOP+ ROSE TOP+SMOTE	FI/GM AUROC/AUPRC	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .646 .578 / .604 .604 / .604 .504 / .604 .604 / .604 .604 / .604 .604 / .604 .604 / .604 .604 / .604 .604 /	6.79 / .693 .860 / .754 .720 / .728 .869 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .902 / .854 .750 / .756 .902 / .854 .750 / .756 .902 / .854 .750 / .756 .902 / .854 .750 / .756 .902 / .854 .750 / .758 .868 / .879 .933 / .896 .883 / .891 .958 / .918 .912 / .917 .953 / .928 .896 / .908 .965 / .927 .868 / .879 .933 / .896 .873 / .885 .945 / .915 .898 / .903 .953 / .904 .894 / .903 .953 / .904 .894 / .903 .953 / .904 .864 / .871 .921 / .854 .861 / .873 .974 / .955	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610	435 / 460 .703 / 564 .703 / 564 .575 / 592 .715 / 578 .435 / 460 .703 / 564 .576 / 590 .706 / 569 .621 / 640 .719 / 552 .612 / 644 .727 / 597 .600 / 639 .724 / 599 .605 / 643 .726 / 600 .524 / 541 .735 / 603 .442 / 447 .647 / 479 /	7.83 / .789 .832 / .762 .778 / .787 .832 / .762 .778 / .787 .832 / .762 .783 / .787 .832 / .762 .783 / .787 .832 / .750 .819 / .824 .864 / .784 .792 / .798 .842 / .753 .792 / .802 .847 / .691 .797 / .798 .845 / .740 .787 / .793 .836 / .761 .625 / .642 .695 / .505 / / /  1-NN .864 / .875 .917 / .813	3-NN .709 / 718 .879 / 817 .751 / 756 .883 / 824 .709 / 718 .879 / 817 .755 / 759 .887 / 826 .757 / 762 .895 / 826 .776 / 781 .892 / 830 .772 / 777 .885 / 814 .772 / 777 .885 / 814 .772 / 777 .885 / 814 .772 / 777 .886 / 830 .731 / 741 .878 / 817 .646 / .666 .736 / .557 / .	7.16 / .724 .895 / .814 .732 / .740 .875 / .811 .716 / .724 .895 / .814 .760 / .765 .897 / .832 .771 / .775 .903 / .822 .752 / .759 .904 / .811 .744 / .755 .912 / .839 .770 / .779 .910 / .826 .746 / .754 .899 / .821 .614 / .635 .720 / .549 /	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .714 / .569 .617 / .654 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .716 / .570 .620 / .659 .706 / .566 .618 / .657 .683 / .554 .597 / .636 .646 / .514 .594 / .638 .724 / .597/	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .738 .864 / .716 .703 / .714 .851 / .743 .703 / .711 .849 / .774 .669 / .688 .857 / .788 .647 / .665 .747 / .669	731 / 742 915 / 866 771 / 782 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 768 / 775 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607 / /  RF  886 / 895 979 / 962 886 / 895 979 / 962 886 / 895 970 / 922 891 / 900 982 / 970 982 / 970 926 / 932 984 / 936 986 / 932 989 / 939 926 / 932 989 / 937 872 / 884 993 / 959 848 / 858 972 / 954	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .703 .648 / .654 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632 /
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ ROSE TOP+ SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ SMOTE TOP+ RSLS OVUN	F1/GM AUROC/AUPRC F1/GM	.608 / .629 .735 / .646 .621 / .628 .673 / .584 .571 / .578 .692 / .569 .673 / .676 .777 / .673 .748 / .751 .829 / .745 .678 / .682 .746 / .611 .698 / .711 .784 / .650 .662 / .674 .723 / .556 .642 / .657 .748 / .640 .578 / .604 .643 / .478 .710 /777 /  C4.5 .766 / .781 .907 / .805 .882 / .721 .824 / .835 .939 / .822 .830 / .838 .934 / .775 .870 / .876 .937 / .805 .839 / .849 .900 / .726 .829 / .841 .900 / .726 .797 / .805 .805 .805 / .844 .900 / .726 .797 / .805 .807 / .876 .900 / .737 .828 / .844	.679 / .693 .860 / .754 .720 / .728 .889 / .841 .679 / .693 .860 / .754 .782 / .785 .896 / .833 .798 / .804 .899 / .834 .769 / .776 .899 / .834 .769 / .776 .899 / .829 .757 / .766 .902 / .845 .750 / .756 .902 / .845 .760 / .767 .906 / .865 .567 / .582 .699 / .535 / .	.590 / .611 .828 / .746 .690 / .699 .848 / .786 .601 / .617 .827 / .745 .654 / .661 .839 / .761 .693 / .707 .802 / .648 .662 / .668 .856 / .793 .650 / .657 .834 / .767 .646 / .682 .839 / .777 .629 / .641 .843 / .753 .628 / .648 .734 / .610		7.83 / .789 8.32 / .762 778 / .787 8.27 / .771 7.83 / .789 8.32 / .762 7.83 / .789 8.32 / .762 7.83 / .787 8.32 / .750 8.19 / .824 8.64 / .784 7.92 / .792 8.42 / .753 7.92 / .802 8.47 / .691 7.97 / .798 8.45 / .740 7.87 / .793 8.36 / .761 6.25 / .642 6.95 / .505 / 1 1.NN 8.64 / .875 9.17 / .813 8.86 / .896 9.39 / .838 8.86 / .875 9.17 / .813 8.86 / .875 9.17 / .813 8.86 / .875 9.17 / .813 8.86 / .875 9.17 / .813 8.86 / .875 9.17 / .813 8.86 / .875 9.17 / .813 8.86 / .875 9.17 / .813 8.86 / .875 9.17 / .813 8.86 / .875 9.17 / .813 8.86 / .875 9.17 / .813 8.86 / .875 9.17 / .813 8.86 / .875 9.17 / .813 8.86 / .875 9.17 / .813	3-NN .709 / 718 .879 / 817 .751 / 756 .883 / 824 .709 / 718 .879 / 817 .751 / 756 .883 / 824 .709 / 718 .879 / 817 .755 / 759 .887 / 826 .757 / 762 .895 / 826 .757 / 762 .895 / 826 .776 / 781 .892 / 830 .772 / 777 .885 / 814 .772 / 777 .885 / 814 .772 / 777 .888 / 820 .731 / 741 .878 / 817 .646 / 666 .736 / 557	7.16 / .724 8.95 / .814 7.32 / .740 8.95 / .814 7.32 / .740 8.95 / .811 7.16 / .724 8.95 / .811 7.16 / .724 8.95 / .814 7.60 / .765 8.97 / .832 7.71 / .775 9.03 / .822 7.52 / .759 9.04 / .811 7.44 / .755 9.12 / .839 7.70 / .779 9.10 / .826 7.46 / .754 8.89 / .821 6.14 / .635 7.20 / .549	.612 / .645 .714 / .569 .606 / .646 .701 / .564 .612 / .645 .7114 / .569 .617 / .654 .618 / .659 .617 / .658 .688 / .517 .628 / .666 .696 / .541 .620 / .659 .716 / .570 .620 / .659 .716 / .570 .620 / .659 .716 / .570 .621 / .565 .618 / .657 .683 / .554 .597 / .636 .646 / .514 .594 / .638 .724 / .597///	.663 / .678 .852 / .755 .672 / .690 .842 / .761 .635 / .651 .859 / .786 .649 / .657 .842 / .748 .726 / .738 .864 / .813 .683 / .703 .848 / .716 .703 / .714 .849 / .774 .669 / .688 .857 / .788 .647 / .665 .747 / .609	731 / 742 915 / 866 771 / 782 915 / 866 771 / 782 914 / 866 760 / 776 904 / 858 778 / 787 907 / 843 805 / 810 921 / 875 913 / 875 913 / 870 772 / 774 908 / 855 771 / 773 892 / 834 745 / 751 919 / 861 670 / 682 744 / 607	.602 / .611 .789 / .699 .612 / .619 .812 / .739 .596 / .609 .793 / .721 .634 / .639 .796 / .695 .638 / .654 .781 / .676 .658 / .669 .821 / .733 .675 / .683 .802 / .709 .648 / .654 .802 / .709 .611 / .615 .798 / .719 .588 / .606 .741 / .632 /

	Metrics	61.5	07.6	WOR	C1.35	4 3737	haberman	F 3151	N.D.	B7B7	DE	0177
	F1 / GM	C4.5 .170 / .172	C5.0 .190 / .193	XGB .341 / .360	GLM .242 / .295	1-NN .410 / .415	3-NN .344 / .357	5-NN .308 / .325	NB .289 / .336	NN .337 / .358	RF .287 / .289	SVM .223 / .265
BASE	AUROC / AUPRC	.516 / .290	.529 / .314	.670 / .470	.676 / .493	.609 / .393	.630 / .433	.619 / .420	.631 / .470	.679 / .453	.652 / .404	.671 / .464
ROS	F1 / GM	.458 / .464	.466 / .470	.512 / .516	.447 / .452	.438 / .438	.459 / .470	.452 / .462	.385 / .403	.425 / .431	.355 / .358	<b>.496</b> / .498
KOS	AUROC / AUPRC	.627 / .407	.698 / .438	.703 / .474	.667 / .488	.613 / .401	.632 / .414	.627 / .407	.622 / .468	.646 / .484	.642 / .392	.694 / .48
SMOTE	F1 / GM AUROC / AUPRC	.498 / .500 .660 / .429	.471 / .474 .627 / .370	.495 / .498 .702 / .505	.432 / .446 .678 / .495	.408 / .410 .603 / .365	.411 / .416 .617 / .414	.400 / .407 .632 / .433	.361 / .387 .615 / .464	.469 / .472 .663 / .448	.355 / .357 .665 / .420	.438 / .444
Data.	F1 / GM	.466 / .472	.456 / .466	.460 / .463	.424 / .438	.399 / .401	.399 / .401	.345 / .347	.351 / .379	.389 / .390	.337 / .337	.446 / .452
RSLS	AUROC / AUPRC	.625 / .393	.650 / .400	.683 / .491	.675 / .494	.600 / .375	.619 / .400	.607 / .384	.611 / .460	.608 / .408	.648 / .376	.717 / .500
TOP+V	F1 / GM	.484 / .512	.471 / .497	.497 / .536	.492 / .498	.456 / .464	.457 / .525	.469 / .530	.455 / .524	.478 / .509	.455 / .503	.473 / .508
TOP+	AUROC / AUPRC F1 / GM	.609 / .350 .509 / .518	.607 / .347 .502 / .512	.662 / .435 .485 / .518	.652 / .449 .462 / .503	.640 / .375 .465 / .532	.555 / .304 .481 / .494	.548 / .296 .435 / .457	.563 / .338 .437 / .447	.658 / .441 .480 / .505	.604 / .324 .474 / .510	.618 / .37
ROSE	AUROC / AUPRC	.635 / .361	.643 / .385	.696 / .518	.672 / .496	.594 / .321	.653 / .446	.621 / .391	.616 / .465	.671 / .456	.636 / .366	.714 / .508
TOP+	F1 / GM	.452 / .499	.453 / .503	.465 / .522	.427 / .504	.469 / .532	.457 / .460	.441 / .524	.423 / .499	.464 / .499	.465 / .499	.443 / .514
SMOTE	AUROC / AUPRC	.640 / .369	.677 / .434	.685 / .450	.633 / .433	.600 / .326	.651 / .455	.555 / .298	.593 / .421	.653 / .460	.639 / .376	.632 / .464
TOP+ RSLS	F1 / GM AUROC / AUPRC	.493 / .517 .652 / .402	.453 / .503 .677 / .434	.474 / .531 .680 / .470	.427 / .504 .633 / .433	.469 / .532 .600 / .326	.480 / .526 .638 / .350	<b>.494</b> / .545 .641 / .354	.423 / .499 .593 / .421	.463 / .496 .665 / .437	.471 / .520 .638 / .397	.445 / .513
	F1/GM	.497 / .519	.500 / .519	.507 / .535	.457 / .507	.453 / .463	.466 / .485	.473 / .497	.431 / .479	.502 / .520	.483 / .497	.488 / .520
OVUN	AUROC / AUPRC	.668 / .413	.674 / .454	.702 / .471	.623 / .447	.614 / .364	.664 / .436	.661 / .439	.584 / .415	.675 / .489	.677 / .411	.671 / .45
ROSE	F1 / GM	.475 / .479	.486 / .490	.478 / .479	.417 / .420	.366 / .376	.391 / .401	.395 / .402	.368 / .389	.433 / .438	.430 / .440	.396 / .39
	AUROC / AUPRC F1 / GM	.467 /	.645 / .424	.648 / .439	.653 / .472	.542 / .296	.568 / .340	.592 / .377	.611 / .456	.648 / .454	.640 / .406	.645 / .45
DBSM*	AUROC / AUPRC	.622 /	/	/	/	/	/	/	/	/	/	/
												•
	Metrics	C4.5	C5.0	XGB	GLM	1-NN	Liver-disorders 3-NN	5-NN	NB	NN	RF	SVM
DASE	F1 / GM	.700 / .703	.746 / .749	.739 / .741	.696 / .701	.664 / .668	.678 / .680	.703 / .704	.352 / .399	.686 / .688	.763 / .766	.657 / .659
BASE	AUROC / AUPRC	.617 / .653	.747 / .754	.744 / .771	.708 / .757	.620 / .668	.640 / .677	.679 / .717	.634 / .696	.700 / .759	.765 / .777	.659 / .71:
ROS	F1 / GM	.682 / .685	.740 / .742	.785 / .786	.692 / .696	.708 / .711	.680 / .683	.686 / .688	.412 / .448	.746 / .748	.774 / .778	.720 / .722
	AUROC / AUPRC F1 / GM	.631 / .673 .746 / .750	.732 / .765 .746 / .748	.783 / .814 .774 / .780	.710 / .765 .733 / .735	.623 / .661 .681 / .684	.650 / .688 .692 / .694	.662 / .701 .735 / .738	.647 / .714 .501 / .525	.732 / .753 .729 / .731	.754 / .792 .759 / .762	.696 / .75 .721 / .72
SMOTE	AUROC / AUPRC	.7 <b>46</b> / .750 .642 / .679	.746 / .748	.7/4 / .780	.707 / .759	.681 / .684	.633 / .672	.683 / .708	.644 / .706	.686 / .715	.753 / .778	.687 / .74
DCIC	F1 / GM	.736 / .740	.746 / .748	.772 / .777	.733 / .735	.681 / .684	.692 / .694	.735 / .738	.501 / .525	.672 / .674	.784 / .785	.725 / .72
RSLS	AUROC / AUPRC	.642 / .686	.735 / .763	.770 / .801	.707 / .759	.617 / .662	.633 / .672	.683 / .708	.644 / .706	.664 / .715	.759 / .778	.691 / .74
TOP+V	F1 / GM AUROC / AUPRC	.645 / .651	.662 / .675 .723 / .613	.693 / .701 .772 / .716	.653 / .664	.614 / .650	.624 / .654	.628 / .636	.621 / .652	.644 / .648	.686 / .691	.630 / .64
TOP+	F1 / GM	.676 / .576 .606 / .644	.663 / .667	.679 / .689	.738 / .700 .631 / .642	.575 / .464 .621 / .646	.625 / .505 .618 / .645	.689 / .625	.636 / .546 .608 / .622	.719 / .635 .628 / .640	.766 / .742 .678 / .687	.700 / .66 .628 / .63
ROSE	AUROC / AUPRC	.577 / .472	.762 / .727	.765 / .727	.714 / .666	.601 / .485	.669 / .573	.678 / .598	.636 / .547	.704 / .648	.771 / .740	.729 / .71
TOP+	F1 / GM	.629 / .644	.649 / .654	.660 / .664	.628 / .647	.623 / .647	.608 / .637	.608 / .644	.618 / .645	.643 / .646	.656 / .676	.620 / .62
SMOTE	AUROC / AUPRC	.657 / .536	.735 / .699	.789 / .760	.700 / .642	.604 / .487	.665 / .563	.661 / .563	.643 / .551	.741 / .717	.739 / .700	.715 / .70
TOP+ RSLS	F1 / GM AUROC / AUPRC	.609 / .636 .593 / .482	.649 / .654 .735 / .699	.660 / .664 .789 / .760	.639 / .657 .707 / .650	.623 / .647 .604 / .487	.618 / .645 .679 / .573	.608 / .644 .661 / .563	.619 / .646 .650 / .552	.641 / .654 .703 / .625	.678 / .687 .771 / .740	.623 / .63 .709 / .68
	F1 / GM	.581 / .591	.627 / .642	.641 / .664	.614 / .632	.568 / .575	.575 / .587	.596 / .610	.615 / .647	.627 / .634	.621 / .631	.584 / .59
OVUN	AUROC / AUPRC	.594 / .490	.700 / .624	.704 / .651	.696 / .644	.602 / .493	.620 / .532	.633 / .542	.624 / .536	.699 / .638	.733 / .671	.653 / .61
ROSE	F1 / GM AUROC / AUPRC	.564 / .586 .541 / .457	.552 / .573 .547 / .444	.567 / .573 .673 / .613	.556 / .560 .699 / .631	.545 / .553 .565 / .470	.538 / .546 .569 / .475	.526 / .534 .550 / .482	.584 / .606 .620 / .555	.549 / .556 .620 / .546	.543 / .545 .617 / .569	.570 / .574
DDG1 64	F1/GM	.541 / .43 /	.347 / .444	/	/	.303 / .470	.3097.473	.5507.482	/	.020 / .340	.0177.309	.656 / .592
DBSM*	AUROC / AUPRC	/	/	/	/	/	/	/	/	/	/	/
							new-thyroid1					
	Metrics	C4.5	C5.0	XGB	GLM	1-NN	3-NN	5-NN	NB	NN	RF	SVM
BASE	F1 / GM AUROC / AUPRC	.870 / .880 .944 / .827	.920 / .926 .996 / .968	.868 / .883 1.00 / 1.00	.940 / .944 .985 / .959	.930 / .939 .950 / .925	.871 / .886 .965 / .943	.849 / .867 .963 / .935	.898 / .906 .996 / .977	.989 / .989 1.00 / 1.00	.946 / .950 1.00 / 1.00	.879 / .888 .994 / .974
D.O.G.	F1 / GM	.909 / .915	.920 / .926	.943 / .947	.940 / .944	.930 / .939	.890 / .902	.818 / .835	.868 / .879	.989 / .989	.923 / .929	.926 / .930
ROS	AUROC / AUPRC							.967 / .949	.996 / .977	1.00 / 1.00		
SMOTE		.936 / .880	.965 / .937	.999 / .994	.968 / .935	.950 / .925	.967 / .949	.7011.777		1.00 / 1.00	1.00 / 1.00	.9977.98
	F1 / GM	.936 / .880 .927 / .933	.941 / .947	.929 / .934	.960 / .963	<b>.950</b> / .958	.905 / .915	.859 / .870	.888 / .897	.975 / .976	.955 / .958	.922 / .92
	AUROC / AUPRC	.936 / .880 .927 / .933 .957 / .905	.941 / .947 .972 / .965	.929 / .934 .999 / .994	.960 / .963 .988 / .984	<b>.950</b> / .958 .967 / .949	.905 / .915 .965 / .943	.859 / .870 .964 / .936	.996 / .977	.975 / .976 1.00 / 1.00	.955 / .958 1.00 / 1.00	.922 / .92° .997 / .989
RSLS	AUROC / AUPRC F1 / GM	.936 / .880 .927 / .933 .957 / .905 .835 / .851	.941 / .947 .972 / .965 .888 / .899	.929 / .934	.960 / .963 .988 / .984 .940 / .944	.950 / .958 .967 / .949 .930 / .939	.905 / .915 .965 / .943 .857 / .873	.859 / .870 .964 / .936 .877 / .891	.996 / .977 .887 / .896	.975 / .976 1.00 / 1.00 .989 / .989	.955 / .958 1.00 / 1.00 .951 / .955	.922 / .927 .997 / .989 .872 / .885
	AUROC / AUPRC	.936 / .880 .927 / .933 .957 / .905	941 / 947 972 / 965 .888 / .899 .999 / .994 .960 / .963	.929 / .934 .999 / .994 .896 / .905	.960 / .963 .988 / .984	950 / 958 967 / 949 930 / 939 950 / 925 950 / 958	.905 / .915 .965 / .943	.859 / .870 .964 / .936	.996 / .977	.975 / .976 1.00 / 1.00	.955 / .958 1.00 / 1.00	.922 / .927 .997 / .989 .872 / .885 .994 / .978
TOP+V	AUROC / AUPRC F1 / GM AUROC / AUPRC F1 / GM AUROC / AUPRC	.936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900	.941 / .947 .972 / .965 .888 / .899 .999 / .994 .960 / .963 .996 / .968	.929 / .934 .999 / .994 .896 / .905 1.00 / 1.00 .966 / .968 1.00 / 1.00	.960 / .963 .988 / .984 .940 / .944 .985 / .959 .975 / .976 1.00 / 1.00	.950 / .958 .967 / .949 .930 / .939 .950 / .925 .950 / .958 .967 / .949	.905 / .915 .965 / .943 .857 / .873 .964 / .938 .908 / .918 .964 / .929	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924	.996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977	.975 / .976 1.00 / 1.00 .989 / .989 1.00 / 1.00 .989 / .989 1.00 / 1.00	.955 / .958 1.00 / 1.00 .951 / .955 1.00 / 1.00 .986 / .987 1.00 / 1.00	.922 / .92° .997 / .98° .872 / .88° .994 / .97° .916 / .92° .992 / .94°
TOP+V TOP+	AUROC / AUPRC F1 / GM AUROC / AUPRC F1 / GM AUROC / AUPRC F1 / GM	.936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923	.941 / .947 .972 / .965 .888 / .899 .999 / .994 .960 / .963 .996 / .968 .949 / .952	.929 / .934 .999 / .994 .896 / .905 1.00 / 1.00 .966 / .968 1.00 / 1.00 .946 / .950	.960 / .963 .988 / .984 .940 / .944 .985 / .959 .975 / .976 1.00 / 1.00 .975 / .976	.950 / .958 .967 / .949 .930 / .939 .950 / .925 .950 / .958 .967 / .949 .939 / .947	.905 / .915 .965 / .943 .857 / .873 .964 / .938 .908 / .918 .964 / .929	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918	.996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910	.975 / .976 1.00 / 1.00 .989 / .989 1.00 / 1.00 .989 / .989 1.00 / 1.00 .989 / .989	.955 / .958 1.00 / 1.00 .951 / .955 1.00 / 1.00 .986 / .987 1.00 / 1.00 .969 / .971	.922 / .92 .997 / .98 .872 / .88 .994 / .97 .916 / .92 .992 / .94
TOP+V	AUROC / AUPRC F1 / GM AUROC / AUPRC F1 / GM AUROC / AUPRC	.936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900	.941 / .947 .972 / .965 .888 / .899 .999 / .994 .960 / .963 .996 / .968	.929 / .934 .999 / .994 .896 / .905 1.00 / 1.00 .966 / .968 1.00 / 1.00	.960 / .963 .988 / .984 .940 / .944 .985 / .959 .975 / .976 1.00 / 1.00	.950 / .958 .967 / .949 .930 / .939 .950 / .925 .950 / .958 .967 / .949	.905 / .915 .965 / .943 .857 / .873 .964 / .938 .908 / .918 .964 / .929	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924	.996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977	.975 / .976 1.00 / 1.00 .989 / .989 1.00 / 1.00 .989 / .989 1.00 / 1.00 .989 / .989 1.00 / 1.00	.955 / .958 1.00 / 1.00 .951 / .955 1.00 / 1.00 .986 / .987 1.00 / 1.00	.922 / .92' .997 / .98' .872 / .88: .994 / .97' .916 / .92: .992 / .94' .955 / .95:
TOP+V TOP+ ROSE TOP+	AUROC / AUPRC F1 / GM AUROC / AUPRC	.936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944	941 / 947 972 / 965 888 / 899 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 983 / 965 983 / 962	929 / .934 .999 / .994 .896 / .905 1.00 / 1.00 .966 / .968 1.00 / 1.00 .946 / .950 .999 / .994 .927 / .934 1.00 / 1.00	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975	.950 / .958 .967 / .949 .930 / .939 .950 / .925 .950 / .958 .967 / .949 .939 / .947 .964 / .929	.905 / .915 .965 / .943 .857 / .873 .964 / .938 .908 / .918 .964 / .929 .919 / .929 .967 / .949	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938	.996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977	.975 / .976 1.00 / 1.00 .989 / .989 1.00 / 1.00 .989 / .989 1.00 / 1.00 .989 / .989	.955 / .958 1.00 / 1.00 .951 / .955 1.00 / 1.00 .986 / .987 1.00 / 1.00 .969 / .971 1.00 / 1.00	.922 / .92' .997 / .98' .872 / .88: .994 / .97' .916 / .922 .992 / .94' .955 / .95' 1.00 / 1.00
TOP+V TOP+ ROSE TOP+ SMOTE TOP+	AUROC / AUPRC F1 / GM	.936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944	941 / 947 972 / 965 888 / 899 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 963 / 965 983 / 962	929 / .934 999 / .994 .896 / .905 1.00 / 1.00 .966 / .968 1.00 / 1.00 .946 / .950 .999 / .994 .927 / .934 1.00 / 1.00 .927 / .934	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975	950 / 958 967 / 949 930 / 939 950 / 925 950 / 925 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 919 919 / 929 967 / 949 919 / 929 967 / 949 919 / 929	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970	.996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .923 / .929	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 993	922 / 92 997 / 98 872 / 88 994 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.00 921 / 92 997 / 98 912 / 91
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS	AUROC / AUPRC F1 / GM AUROC / AUPRC	.936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944 .940 / .944 .956 / .924	941 / 947 972 / 965 888 / 899 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 963 / 965 983 / 965 980 / 963 974 / 966	929 / 934 999 / 994 896 / 905 1.00 / 1.00 <b>966</b> / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 927 / 934 1.00 / 1.00	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975	950 / 958 967 / 949 930 / 939 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 939 / 947 964 / 929	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 964 / 929 919 / 929 967 / 949 919 / 929 967 / 949 919 / 929 967 / 949	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918	.996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .923 / .929 .996 / .977	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00	922 / 92 997 / 98 872 / 88 994 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 997 / 98 912 / 91 996 / 98
TOP+V TOP+ ROSE TOP+ SMOTE TOP+	AUROC / AUPRC F1 / GM	.936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944	941 / 947 972 / 965 888 / 899 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 963 / 965 983 / 962	929 / .934 999 / .994 .896 / .905 1.00 / 1.00 .966 / .968 1.00 / 1.00 .946 / .950 .999 / .994 .927 / .934 1.00 / 1.00 .927 / .934	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975	950 / 958 967 / 949 930 / 939 950 / 925 950 / 925 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 919 919 / 929 967 / 949 919 / 929 967 / 949 919 / 929	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970	.996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .923 / .929	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 993	922 / 92 997 / 98 872 / 88 994 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 997 / 98 912 / 91 996 / 98 873 / 88
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN	AUROC / AUPRC F1 / GM	.936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877	941 / 947 972 / 968 888 / 899 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 963 / 965 983 / 962 960 / 963 974 / 966 901 / 913 999 / 994 873 / 881	929 / 934 999 / 994 896 / 905 1.00 / 1.00 <b>966</b> / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 929	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926	950 / 958 967 / 949 930 / 939 950 / 925 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 964 / 929 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943	996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .907 / .914 .996 / .977 .813 / .831	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 923 / 929	922 / 92 997 / 98 872 / 88 874 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.00 921 / 92 997 / 98 912 / 91 996 / 98 873 / 88 994 / 97 896 / 90
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS	AUROC / AUPRC F1 / GM AUROC / AUPRC	.936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877 .955 / .756	941 / 947 972 / 965 888 / 899 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 963 / 965 983 / 965 980 / 961 960 / 963 974 / 966 901 / 913 999 / 994 873 / 881 997 / 989	929 / 934 999 / 994 896 / 905 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 999 1.00 / 1.00	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00	950 / 958 967 / 949 930 / 939 950 / 925 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736 993 / 557	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 964 / 929 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768 960 / .768	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943 .757 / .784	.996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .923 / .929 .996 / .977 .907 / .914 .996 / .977 .813 / .831 .995 / .965	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 966 / 968 1.00 / 1.00 923 / 929 999 / 994	922 / 92 997 / 98 872 / 88 994 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 997 / 98 912 / 91 996 / 98 873 / 88 994 / 97 896 / 90 993 / 97
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE	AUROC / AUPRC F1 / GM	.936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877	941 / 947 972 / 968 888 / 899 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 963 / 965 983 / 962 960 / 963 974 / 966 901 / 913 999 / 994 873 / 881	929 / 934 999 / 994 896 / 905 1.00 / 1.00 <b>966</b> / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 929	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926	950 / 958 967 / 949 930 / 939 950 / 925 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 964 / 929 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943	996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .907 / .914 .996 / .977 .813 / .831	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 966 / 968 1.00 / 1.00 923 / 929	922 / 92 997 / 98 872 / 88 894 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.00 921 / 92 997 / 98 912 / 91 873 / 88 994 / 97 896 / 90 993 / 97
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE	AUROC / AUPRC F1 / GM	.936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877 .955 / .756 .913 /	941 / 947 972 / 965 888 / 899 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 963 / 965 983 / 965 980 / 963 974 / 966 901 / 913 999 / 994 873 / 881 997 / 989	929 / 934 999 / 994 896 / 905 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 929 1.00 / 1.00	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00	950 / 958 967 / 949 930 / 939 950 / 925 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736 903 / 557	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 918 964 / 929 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 905 / 915 906 / 768 / /	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943 .757 / .784 .973 / .862	996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .923 / .929 .996 / .977 .921 / .929 .996 / .977 .923 / .929 .996 / .977 .907 / .914 .996 / .977 .813 / .831 .995 / .965	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 923 / 929 999 / 994	922 / 92 997 / 98' 872 / 88: 994 / 97! 916 / 92: 992 / 94' 955 / 95: 1.00 / 1.00 921 / 92: 997 / 98: 873 / 88: 994 / 97: 896 / 900 993 / 97:
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE	AUROC / AUPRC F1 / GM	.936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877 .955 / .756 .913 /	941 / 947 972 / 965 888 / 899 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 963 / 965 983 / 965 980 / 963 974 / 966 901 / 913 999 / 994 873 / 881 997 / 989	929 / 934 999 / 994 896 / 905 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 929 1.00 / 1.00 	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00	950 / 958 967 / 949 930 / 939 950 / 925 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736 903 / 557	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 964 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768 960 / 768	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943 .757 / .784 .973 / .862	996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .923 / .929 .996 / .977 .921 / .929 .996 / .977 .923 / .929 .996 / .977 .907 / .914 .996 / .977 .813 / .831 .995 / .965	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 923 / 929 999 / 994	922 / 92 997 / 98 872 / 88 894 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.00 921 / 92 997 / 98 912 / 91 873 / 88 994 / 97 896 / 90 993 / 97
TOP+V TOP+ ROSE TOP+ RSLS OVUN ROSE DBSM*	AUROC / AUPRC F1 / GM AUROC / AUPRC	.936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877 .955 / .756 .913 / .933 /	941 / 947 972 / 968 888 / 889 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 963 / 963 974 / 966 901 / 913 999 / 994 873 / 881 997 / 989 /	929 / 934 999 / 994 896 / 905 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 927 / 934 1.00 / 1.00 921 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 929 1.00 / 1.00 923 / 929 1.00 / 1.00 871 / 886 8844 / 853	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 / /	950 / 958 967 / 949 930 / 939 930 / 925 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736 903 / 557 / / 1-NN 910 / 920	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 918 908 / 999 919 / 929 967 / 949 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768 960 / 768 / new-thyroid2 3-NN 876 / 889	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943 .757 / .784 .973 / .862 /	996 / .977 887 / .896 996 / .977 898 / .906 996 / .977 903 / .910 .996 / .977 923 / .929 .996 / .977 .907 / .914 .996 / .977 .813 / .831 .995 / .965	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 860 / 871 1.00 / 1.00  NN 969 / 971	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 986 / 987 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 923 / 929 999 / 994	922 / 92 997 / 98 872 / 88 872 / 88 879 / 99 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 997 / 98 912 / 91 996 / 98 873 / 88 874 / 87 896 / 90 993 / 97 /  SVM 913 / 91
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*	AUROC / AUPRC F1 / GM AUROC / AUPRC	.936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877 .955 / .756 .913 /933 /	941 / 947 972 / 965 888 / 899 999 / 994 960 / 968 949 / 962 983 / 962 983 / 962 983 / 962 980 / 963 974 / 966 901 / 913 999 / 994 873 / 881 997 / 989 / C5.0 847 / 852 968 / 889	929 / 934 999 / 994 896 / 905 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 929 1.00 / 1.00 /	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 940 / 944 940 / 954 950 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 / /  GLM 909 / 912 964 / 938	950 / 958 967 / 949 930 / 939 930 / 939 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736 903 / 557 / 1-NN 910 / 920 949 / 888	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 918 9064 / 929 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 905 / 915 906 / 768 / new-thyroid2 3-NN 876 / 889 995 / 975	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943 .757 / .784 .973 / .862 /	996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .923 / .929 .996 / .977 .907 / .914 .996 / .977 .813 / .831 .995 / .965	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 998 996 / 968 1.00 / 1.00 966 / 968 1.00 / 1.00 923 / 929 999 / 994 / /  RF 916 / 926 993 / 966	922 / 92 997 / 98 872 / 88 8794 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 997 / 98 873 / 88 994 / 97 / 896 / 90 993 / 97 /  SVM 913 / 91 990 / 94
TOP+V TOP+ ROSE TOP+ RSLS OVUN ROSE DBSM*	AUROC / AUPRC F1 / GM AUROC / AUPRC	.936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877 .955 / .756 .913 / .933 /	941 / 947 972 / 965 888 / 899 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 963 / 965 983 / 965 990 / 993 974 / 966 901 / 913 999 / 994 873 / 881 997 / 989 / / / 847 / 852 968 / 889 849 / 863	929 / 934 999 / 994 896 / 905 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 934 844 / 853 993 / 966 866 / 872	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 / GLM 909 / 912 964 / 938 999 / 912	950 / 958 967 / 949 930 / 939 950 / 925 950 / 925 950 / 925 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736 903 / 557 / 1-NN 910 / 920 949 / 888 910 / 920	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 964 / 929 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768 960 / .768 / new-thyroid2 3-NN 876 / 889 995 / 975	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943 .757 / .784 .973 / .862 /	996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .923 / .929 .996 / .977 .813 / .831 .995 / .965	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 971 1.00 / 1.00 975 / 976	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 986 / 987 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 966 / 968 1.00 / 1.00 923 / 999 999 / 994 / /  RF 916 / 926 993 / 966 916 / 926	922 / 92 997 / 98 872 / 88 8794 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 997 / 98 912 / 94 873 / 88 994 / 97 896 / 90 993 / 97 /  SVM 913 / 91 990 / 94 891 / 90
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM* BASE ROS	AUROC / AUPRC F1 / GM	.936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877 .955 / .756 .913 /933 /	941 / 947 972 / 965 888 / 899 999 / 994 960 / 968 949 / 962 983 / 962 983 / 962 983 / 962 980 / 963 974 / 966 901 / 913 999 / 994 873 / 881 997 / 989 / C5.0 847 / 852 968 / 889	929 / 934 999 / 994 896 / 905 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 929 1.00 / 1.00 /	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 940 / 944 940 / 954 950 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 / /  GLM 909 / 912 964 / 938	950 / 958 967 / 949 930 / 939 930 / 939 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736 903 / 557 / 1-NN 910 / 920 949 / 888	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 918 9064 / 929 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 905 / 915 906 / 768 / new-thyroid2 3-NN 876 / 889 995 / 975	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943 .757 / .784 .973 / .862 /	996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .923 / .929 .996 / .977 .907 / .914 .996 / .977 .813 / .831 .995 / .965	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00 1.00 / 1.00	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 998 996 / 968 1.00 / 1.00 966 / 968 1.00 / 1.00 923 / 929 999 / 994 / /  RF 916 / 926 993 / 966	922 / 92 997 / 98 872 / 88 872 / 88 872 / 88 994 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 997 / 98 912 / 91 996 / 98 873 / 88 994 / 97
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM* BASE ROS	AUROC / AUPRC F1 / GM AUROC / AUPRC	936 / .880 927 / .933 957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944 .940 / .944 .956 / .872 .914 / .771 .870 / .877 .933 /  C4.5 .848 / .854 .929 / .847 .852 / .866 .914 / .814 .863 / .877 .920 / .836	941 / 947 972 / 965 888 / 899 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 963 / 965 981 / 966 901 / 913 997 / 989 / C5.0 847 / 852 968 / 889 849 / 863 944 / 863 945 / 863 947 / 863 948 / 863 949 / 949 950 / 968 / 869 849 / 863 949 / 949 873 / 881 997 / 989 / 968 / 889 849 / 863 945 / 863 945 / 863	929 / 934 999 / 994 896 / 905 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 929 1.00 / 1.00 /  XGB 844 / 853 993 / 966 866 / 872 990 / 962 905 / 907 984 / 925	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 /  GLM 909 / 912 964 / 938 909 / 912 964 / 938	950 / 958 967 / 949 930 / 939 930 / 939 950 / 925 950 / 925 950 / 925 950 / 929 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736 903 / 557 / 1-NN 910 / 920 949 / .888 910 / .920 949 / .888 915 / .934	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 918 908 / 919 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 905 / 915 906 / 768 / new-thyroid2 3-NN 876 / 889 995 / 975 914 / 922 992 / 946 8896 / 900 990 / 930	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943 .757 / .784 .973 / .862 /	996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .907 / .914 .996 / .977 .813 / .831 .995 / .965	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 975 1.00 / 1.00 975 / 976 1.00 / 1.00 975 / 976 1.00 / 1.00	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 986 / 987 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 966 / 968 1.00 / 1.00 923 / 929 999 / 994 / /  RF 916 / 926 993 / 966 916 / 926 996 / 977 925 / 934 997 / 988	922 / .92 .997 / .98 .872 / .88 .879 4 / .97 .916 / .92 .992 / .94 .955 / .95 .1.00 / 1.0 .921 / .92 .997 / .98 .873 / .88 .994 / .97 / .
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS	AUROC / AUPRC F1 / GM	.936 / .880 .927 / .933 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877 .955 / .756 .913 /933 /  C4.5 .848 / .854 .929 / .847 .852 / .866 .914 / .814 .863 / .877 .920 / .836 .840 / .845	941 / 947 972 / 965 888 / 899 999 / 994 960 / 963 949 / 952 983 / 965 963 / 965 964 / 963 974 / 966 901 / 913 999 / 994 873 / 881 997 / 989 / / C5.0 847 / 852 849 / 863 945 / 863 849 / 863	929 / 934 999 / 994 896 / 995 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 929 1.00 / 1.00 / XGB 844 / .853 993 / .966 866 / 872 990 / .962 905 / .907 984 / .925 902 / .994	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 /  GLM 909 / 912 964 / 938 909 / 912 964 / 938	950 / 958 967 / 949 930 / 939 930 / 939 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736 903 / 557 / 1-NN 910 / 920 949 / 888 910 / 920 949 / 888 925 / 934 961 / 994 961 / 994	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 918 908 / 919 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768 960 / 768 /  new-thyroid2 3-NN 876 / 889 995 / 975 914 / 922 992 / 946 896 / 900 990 / 930 882 / 887	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943 .757 / .784 .973 / .862 /	996 / 977 887 / 886 996 / 977 898 / 906 996 / 977 903 / 910 996 / 977 923 / 929 996 / 977 907 / 914 996 / 977 813 / 831 995 / 965 / NB 927 / 933 996 / 971 875 / 888 996 / 971 878 / 881 996 / 971 913 / 920	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 9860 / 871 1.00 / 1.00 9869 / 971 1.00 / 1.00 975 / 976 1.00 / 1.00 975 / 976 1.00 / 1.00 989 / 989	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 986 / 987 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 923 / 929 999 / 994 /  RF 916 / 926 996 / 977 925 / 934 997 / 988 930 / 939	922 / 92 997 / 98 872 / 88 872 / 88 872 / 88 994 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 997 / 98 912 / 91 996 / 98 873 / 88 994 / 97 /  SVM 913 / 91 990 / 94 891 / 90 991 / 97 991 / 99
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS	AUROC / AUPRC F1 / GM AUROC / AUPRC	.936 / .880 .927 / .933 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877 .955 / .756 .913 /933 /933 /933 /934 / .852 / .866 .914 / .814 .863 / .877 .920 / .836 .840 / .845 .846 / .845	941 / 947 972 / 968 888 / 889 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 963 / 963 974 / 966 901 / 913 999 / 994 873 / 881 997 / 989 / / C5.0 847 / 852 968 / 863 849 / 863 849 / 863 849 / 863 849 / 863 849 / 863 849 / 854 882 / 897 995 / 978	929 / 934 999 / 994 896 / 905 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 927 / 934 1.00 / 1.00 923 / 929 1.00 / 1.00 923 / 929 1.00 / 1.00 	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 / /  GLM 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938	950 / 958 967 / 949 930 / 939 930 / 925 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736 903 / 557 / 1-NN 910 / 920 949 / 888 925 / 934 961 / 994 910 / 920 949 / 888	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 918 908 / 919 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768 960 / 768 /  new-thyroid2 3-NN 876 / 889 995 / 975 914 / 922 992 / 946 896 / 900 990 / 930 882 / 887 992 / 954	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943 .757 / .784 .973 / .862 / / / / /	996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .907 / .914 .996 / .977 .907 / .914 .996 / .977 .908 / .979 .909 / .979 .909 / .979 .909 / .979 .909 / .979 .909 / .979 .909 / .979 .909 / .979 .909 / .979 .909 / .979 .909 / .971 .909 / .971	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 971 1.00 / 1.00 975 / 976 1.00 / 1.00 975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 986 / 987 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 923 / 929 999 / 994	922 / 92 997 / 98 872 / 88 872 / 88 8794 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 997 / 98 873 / 88 874 / 97 896 / 90 993 / 97 /  SVM 913 / 91 990 / 94 891 / 90 991 / 96 991 / 90 991 / 96 991 / 90 994 / 96 991 / 90 994 / 96 991 / 91 992 / 96
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS	AUROC / AUPRC F1 / GM	.936 / .880 .927 / .933 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877 .955 / .756 .913 /933 /  C4.5 .848 / .854 .929 / .847 .852 / .866 .914 / .814 .863 / .877 .920 / .836 .840 / .845	941 / 947 972 / 965 888 / 899 999 / 994 960 / 963 949 / 952 983 / 965 963 / 965 964 / 963 974 / 966 901 / 913 999 / 994 873 / 881 997 / 989 / / C5.0 847 / 852 849 / 863 945 / 863 849 / 863	929 / 934 999 / 994 896 / 995 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 929 1.00 / 1.00 / XGB 844 / .853 993 / .966 866 / 872 990 / .962 905 / .907 984 / .925 902 / .994	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 /  GLM 909 / 912 964 / 938 909 / 912 964 / 938	950 / 958 967 / 949 930 / 939 930 / 939 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736 903 / 557 / 1-NN 910 / 920 949 / 888 925 / 934 961 / 904 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 918 908 / 919 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768 960 / 768 /  new-thyroid2 3-NN 876 / 889 995 / 975 914 / 922 992 / 946 896 / 900 990 / 930 882 / 887	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943 .757 / .784 .973 / .862 /	996 / 977 887 / 886 996 / 977 898 / 906 996 / 977 903 / 910 996 / 977 923 / 929 996 / 977 907 / 914 996 / 977 813 / 831 995 / 965 / NB 927 / 933 996 / 971 875 / 888 996 / 971 878 / 881 996 / 971 913 / 920	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 9860 / 871 1.00 / 1.00 9869 / 971 1.00 / 1.00 975 / 976 1.00 / 1.00 975 / 976 1.00 / 1.00 989 / 989	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 986 / 987 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 923 / 929 999 / 994 /  RF 916 / 926 996 / 977 925 / 934 997 / 988 930 / 939	922 / 92 997 / 98 872 / 88 994 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 997 / 98 873 / 88 994 / 97 / SVM 913 / 91 990 / 94 881 / 90 994 / 96 991 / 97 994 / 96 994 / 96 997 / 98 997 / 98 997 / 98 997 / 98 998 / 99 999 / 94 997 / 98 997 / 98
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+	AUROC / AUPRC F1 / GM	.936 / .880 .927 / .933 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877 .955 / .756 .913 /933 /933 /934 / .845 .852 / .866 .914 / .814 .863 / .877 .920 / .836 .840 / .845 .875 / .777 .902 / .906 .964 / .840 .871 / .886	941 / 947 972 / 966 888 / 899 999 / 994 960 / 963 949 / 952 983 / 962 963 / 965 984 / 962 960 / 963 974 / 966 901 / 913 999 / 994 873 / 881 997 / 989 /  C5.0 847 / 852 968 / 889 849 / 863 863 / 877 995 / 978 941 / 944 999 / 997 897 / 910	929 / 934 999 / 994 896 / 995 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 927 / 934 1.00 / 1.00 923 / 929 1.00 / 1.00 	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 /  GLM 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938	950 / 958 967 / 949 930 / 939 930 / 939 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 918 908 / 919 919 / 929 967 / 949 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768 960 / 768 /  new-thyroid2 3-NN 876 / 889 995 / 975 914 / 922 992 / 946 896 / 900 990 / 930 882 / 887 992 / 954 910 / 920 995 / 975 921 / 924	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943 .757 / .784 .973 / .862 	996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .907 / .914 .996 / .977 .813 / .831 .995 / .965	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 980 / 871 1.00 / 1.00 980 / 971 1.00 / 1.00 975 / 976 1.00 / 1.00 975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 986 / 987 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 923 / 929 999 / 994 /  RF 916 / 926 993 / 966 916 / 926 993 / 966 916 / 926 996 / 977 925 / 934 997 / 988 930 / 939 996 / 977 988 / 939 996 / 977 988 / 939	922 / 92 997 / 98 872 / 88 994 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 997 / 98 973 / 88 994 / 97 993 / 97 
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE	AUROC / AUPRC F1 / GM AUROC / AUPRC	936 / .880 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877 .955 / .756 .913 /933 /  C4.5 .848 / .854 .929 / .847 .852 / .866 .914 / .814 .863 / .877 .920 / .836 .840 / .845 .875 / .777 .902 / .906 .964 / .840 .871 / .886 .927 / .833	941 / 947 972 / 968 888 / 899 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 963 / 965 981 / 966 901 / 913 999 / 994 873 / 881 997 / 989 /  C5.0  847 / 852 968 / 889 849 / 863 945 / 863 863 / 877 942 / 854 882 / 897 995 / 978 941 / 944 999 / 997 897 / 991	929 / 934 999 / 994 896 / 905 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 929 1.00 / 1.00 923 / 929 1.00 / 1.00  ***  **XGB**  ***  **XGB**  ***  **XGB**  ***  *	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 /  GLM 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938	950 / 958 967 / 949 930 / 939 930 / 939 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736 903 / 557 / 1-NN 910 / 920 949 / 888 910 / 920 949 / 888 925 / 934 961 / 904 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 925 / 934 961 / 904	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 918 908 / 919 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768 960 / 768 /  new-thyroid2 3-NN 876 / 889 995 / 975 914 / 922 992 / 946 896 / 900 990 / 930 882 / 887 992 / 954 910 / 920 995 / 975 921 / 924	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943 .757 / .784 .973 / .862 /// /// /// /// .820 / .837 .994 / .977 .883 / .893 .994 / .952 .891 / .986 .921 / .958 .865 / .878 .997 / .986 .910 / .917 .997 / .983	996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .907 / .914 .996 / .977 .813 / .831 .995 / .965 /	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 923 / 929 999 / 994	922 / 92 997 / 98 872 / 88 994 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 997 / 98 873 / 88 994 / 97 896 / 90 993 / 97 / SVM 913 / 91 990 / 94 891 / 99 994 / 99 994 / 99 994 / 94 997 / 91 998 / 94 997 / 91 998 / 94 999 / 94
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+	AUROC / AUPRC F1 / GM	936 / .880 927 / .933 957 / .993 835 / .851 872 / .780 932 / .937 973 / .900 916 / .923 962 / .878 963 / .965 982 / .944 940 / .944 956 / .924 862 / .872 914 / .771 870 / .877 955 / .756 913 / 933 /  C4.5  848 / .854 929 / .847 852 / .866 914 / .814 863 / .877 920 / .836 840 / .845 877 / .970 970 / .970 970 / .970 971 / .870 972 / .870 972 / .870 973 / .871 974 / .875 975 / .875 977 / .875 977 / .875 977 / .875 977 / .875 977 / .875	941 / 947 972 / 965 888 / 899 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 963 / 965 981 / 966 901 / 913 997 / 989 /  C5.0  847 / 852 968 / 889 849 / 863 944 / 863 945 / 863 8863 / 877 942 / 854 882 / 897 995 / 978 941 / 944 999 / 997 887 / 910 991 / 996	929 / 934 999 / 994 896 / 905 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 929 1.00 / 1.00 923 / 929 1.00 / 1.00 924 / 925 990 / 962 995 / 907 984 / 925 990 / 922 991 / 943 907 / 997 991 / 945 991 / 956 913 / 915	960 / 963 988 / 984 940 / 944 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 / /  GLM 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938	950 / 958 967 / 949 930 / 939 930 / 939 950 / 925 950 / 925 950 / 925 950 / 926 930 / 939 930 / 939 930 / 939 930 / 939 930 / 939 930 / 939 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 930 / 939 950 / 925 698 / 736 903 / 557 / 1-NN 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 925 / 934 961 / 904 961 / 904 963 / 965	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 918 908 / 919 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 905 / 915 906 / 768 / new-thyroid2 3-NN 876 / 889 995 / 975 914 / 922 992 / 946 886 / 900 990 / 930 8882 / 887 992 / 954 910 / 920 995 / 975 921 / 924 993 / 945	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943 .757 / .784 .973 / .862 // / / / / ///// ///	996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .907 / .914 .996 / .977 .813 / .831 .995 / .965/	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 971 1.00 / 1.00 975 / 976 1.00 / 1.00 975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 923 / 929 999 / 994	922 / 92 997 / 98 872 / 88 994 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 997 / 98 873 / 88 994 / 97 / SVM 913 / 91 990 / 94 891 / 90 994 / 96 991 / 99 994 / 96 994 / 96
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+	AUROC / AUPRC F1 / GM AUROC / AUPRC	936 / .880 .927 / .933 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877 .955 / .756 .913 /933 /  C4.5 .848 / .854 .929 / .847 .852 / .866 .914 / .814 .863 / .877 .920 / .836 .840 / .845 .875 / .777 .902 / .906 .964 / .840 .871 / .886 .927 / .833 .886 / .900 .930 / .858	941 / 947 972 / 966 888 / 899 999 / 994 960 / 963 949 / 952 983 / 962 963 / 965 983 / 965 981 / 966 901 / 913 999 / 994 873 / 881 997 / 989 /  C5.0 847 / 852 849 / 863 945 / 863 945 / 863 863 / 877 942 / 854 882 / 887 995 / 978 941 / 944 999 / 997 897 / 910 991 / 961	929 / 934 999 / 994 896 / 995 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 929 1.00 / 1.00 923 / 929 1.00 / 1.00  ***CGB**  **XGB**  **S44 / .853 993 / .966 866 / 872 990 / .962 905 / .907 994 / .922 991 / .943 997 / .907 991 / .956 913 / .915	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 /  GLM 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 943 / 947 1.00 / 1.00 929 / 930 981 / 962 958 / 962	950 / 958 967 / 949 930 / 939 930 / 939 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736 903 / 557 / 1-NN 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920	905 / 915 965 / 943 857 / 873 857 / 873 857 / 873 964 / 938 908 / 918 908 / 918 908 / 919 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768 960 / 768 /  new-thyroid2 3-NN 876 / 889 995 / 975 914 / 922 992 / 946 896 / 900 990 / 930 882 / 887 992 / 954 910 / 920 995 / 975 921 / 924 993 / 945 901 / 907 992 / 935	859 / 870 964 / 936 877 / 891 963 / 935 890 / 902 962 / 924 906 / 918 964 / 938 854 / 869 982 / 970 854 / 870 958 / 918 869 / 886 965 / 943 757 / 784 973 / 862 /  5-NN 820 / 837 994 / 972 883 / 893 994 / 952 891 / 898 991 / 946 822 / 833 992 / 958 865 / 878 997 / 986 910 / 917 997 / 986	996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .923 / .929 .996 / .977 .813 / .831 .995 / .965	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 986 / 987 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 923 / 929 999 / 994 / /  RF 916 / 926 996 / 977 925 / 934 997 / 988 930 / 939 996 / 977 989 / 989 1.00 / 1.00 939 / 947 996 / 977 939 / 947 998 / 998	922 / 92 997 / 98 872 / 88 994 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 997 / 98 873 / 88 994 / 97 886 / 90 993 / 97 / SVM 913 / 91 990 / 94 881 / 90 994 / 96 991 / 97 996 / 98 997 / 99 998 / 94 997 / 998 / 94 997 / 998 / 94 998 / 94 991 / 998 / 94 991 / 998 / 94 991 / 998 / 94 991 / 999 / 94
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE	AUROC / AUPRC F1 / GM	936 / .880 927 / .933 957 / .993 835 / .851 872 / .780 932 / .937 973 / .900 916 / .923 962 / .878 963 / .965 982 / .944 940 / .944 956 / .924 862 / .872 914 / .771 870 / .877 955 / .756 913 / 933 /  C4.5  848 / .854 929 / .847 852 / .866 914 / .814 863 / .877 920 / .836 840 / .845 877 / .970 970 / .970 970 / .970 971 / .870 972 / .870 972 / .870 973 / .871 974 / .875 975 / .875 977 / .875 977 / .875 977 / .875 977 / .875 977 / .875	941 / 947 972 / 965 888 / 899 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 963 / 965 981 / 966 901 / 913 997 / 989 /  C5.0  847 / 852 968 / 889 849 / 863 944 / 863 945 / 863 8863 / 877 942 / 854 882 / 897 995 / 978 941 / 944 999 / 997 887 / 910 991 / 996	929 / 934 999 / 994 896 / 905 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 929 1.00 / 1.00 923 / 929 1.00 / 1.00 924 / 925 990 / 962 995 / 907 984 / 925 990 / 922 991 / 943 907 / 997 991 / 945 991 / 956 913 / 915	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 /  GLM 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938	950 / 958 967 / 949 930 / 939 930 / 939 950 / 925 950 / 925 950 / 925 950 / 926 930 / 939 930 / 939 930 / 939 930 / 939 930 / 939 930 / 939 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 930 / 939 950 / 925 698 / 736 903 / 557 / 1-NN 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 925 / 934 961 / 904 961 / 904 963 / 965	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 918 908 / 919 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768 960 / 768 / new-thyroid2 3-NN 8.76 / 889 995 / 975 914 / 922 992 / 936 882 / 887 992 / 954 910 / 920 995 / 975 921 / 924 993 / 945 901 / 907 992 / 935 926 / 931 992 / 930	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943 .757 / .784 .973 / .862 /// /// /// .820 / .837 .994 / .977 .883 / .893 .994 / .952 .891 / .898 .991 / .946 .822 / .833 .992 / .958 .865 / .878 .997 / .986 .910 / .917 .986 / .952 .867 / .875 .986 / .952	996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .907 / .914 .996 / .977 .813 / .831 .995 / .965/	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 971 1.00 / 1.00 975 / 976 1.00 / 1.00 975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 923 / 929 999 / 994	922 / 92 997 / 98 872 / 88 994 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 996 / 98 873 / 88 994 / 97 993 / 97 / SVM 913 / 91 990 / 94 991 / 99 991 / 99 993 / 99 993 / 99 994 / 99 994 / 99 995 / 99 996 / 99 997 / 99 997 / 99 998 / 99 998 / 99 999 / 94 990 / 94 991 / 99 993 / 99
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ ROSE TOP+ ROSE TOP+ ROSE TOP+ ROSE TOP+ ROSE TOP+ RSLS	AUROC / AUPRC F1 / GM	936 / .880 .927 / .933 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877 .933 /934 / .854 / .900 .936 / .886 / .900 .930 / .858 .886 / .900 .930 / .858 .886 / .853	941 / 947 972 / 965 888 / 899 972 / 966 888 / 899 999 / 994 960 / 963 949 / 952 983 / 962 960 / 963 974 / 966 901 / 913 999 / 994 873 / 881 997 / 989 /  C5.0 847 / 852 968 / 889 849 / 863 945 / 863 945 / 863 945 / 863 945 / 863 863 / 877 995 / 978 941 / 944 999 / 997 897 / 910 991 / 961 897 / 910 991 / 961 887 / 910 991 / 961 887 / 910 991 / 961	929 / 934 999 / 994 896 / 995 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 929 1.00 / 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 /  GLM 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 943 / 947 1.00 / 1.00 929 / 930 981 / 962 996 / 977 998 / 962	950 / 958 967 / 949 930 / 939 930 / 939 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 930 / 939 950 / 925 698 / 736 903 / 557 / 1-NN 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 925 / 934 961 / 904 963 / 965 992 / 935 960 / 963 992 / 935	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 918 908 / 919 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768 960 / 768 / new-thyroid2 3-NN 876 / 889 995 / 975 914 / 922 992 / 946 896 / 900 990 / 930 882 / 887 992 / 954 910 / 920 995 / 975 921 / 924 991 / 994 995 / 975 921 / 924 996 / 931 992 / 935 996 / 931 992 / 935	859 / 870 964 / 936 877 / 891 963 / 935 890 / 902 962 / 924 906 / 918 964 / 938 854 / 869 982 / 970 854 / 870 958 / 918 869 / 886 965 / 943 757 / 784 973 / 862 /  5-NN 820 / 837 994 / 972 883 / 893 994 / 952 891 / 898 865 / 878 991 / 946 822 / 833 992 / 958 865 / 878 991 / 986 991 / 986 991 / 986 991 / 986 991 / 986 991 / 986 991 / 986 991 / 986 991 / 986	996 / 977 887 / 896 996 / 977 898 / 906 996 / 977 903 / 910 996 / 977 923 / 929 996 / 977 907 / 914 996 / 977 813 / 831 996 / 977 875 / 888 996 / 971 875 / 888 996 / 971 913 / 920 996 / 977 927 / 933 996 / 971 927 / 933 996 / 971 927 / 933 996 / 971 927 / 933 996 / 971 927 / 933 996 / 971 927 / 933 996 / 971 927 / 933 996 / 971 927 / 933	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 980 / 971 1.00 / 1.00 975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00	955 / 958 1.00 / 1.00 951 / 958 1.00 / 1.00 986 / 987 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 923 / 929 999 / 994 /  RF 916 / 926 996 / 977 925 / 934 997 / 988 930 / 939 996 / 977 989 / 997 939 / 947 998 / 990 939 / 947 998 / 990 939 / 947 998 / 990 939 / 947 998 / 990	922 / 92 997 / 98 872 / 88 872 / 88 994 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 997 / 98 912 / 91 996 / 98 873 / 88 994 / 97 896 / 90 991 / 91 991 / 91 991 / 91 991 / 91 991 / 94 991 / 94 991 / 94 991 / 94 991 / 94 991 / 94 993 / 96 933 / 93 990 / 94 867 / 87
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ ROSE TOP+ ROSE TOP+ ROSE TOP+ ROSE TOP+ ROSE TOP+ RSLS	AUROC / AUPRC F1 / GM AUROC / AUPRC	936 / .880 .927 / .933 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877 .955 / .756 .913 /933 /  C4.5 .848 / .854 .929 / .847 .852 / .866 .914 / .814 .863 / .877 .902 / .906 .944 / .840 .871 / .886 .927 / .833 .886 / .900 .930 / .858 .886 / .900 .930 / .858 .886 / .900 .930 / .858 .886 / .858 .836 / .858 .836 / .858 .838 / .858 .838 / .858	941 / 947 972 / 966 888 / 899 999 / 994 960 / 963 949 / 952 983 / 962 963 / 965 984 / 966 901 / 913 999 / 994  873 / 881 997 / 989 /  C5.0  847 / 852 968 / 889 849 / 863 863 / 877 995 / 978 941 / 944 882 / 897 995 / 978 941 / 944 999 / 997 897 / 910 991 / 961 887 / 910 991 / 961 887 / 910 991 / 961 887 / 910 991 / 961 887 / 910 991 / 961	929 / 934 999 / 994 896 / 995 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 927 / 934 1.00 / 1.00 923 / 929 1.00 / 1.00 / XGB 844 / 853 993 / 966 866 / 872 990 / 962 905 / 907 988 / 931 920 / 922 991 / 956 913 / 915 991 / 956 913 / 915 991 / 956 867 / 870 998 / 931	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 /  GLM 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938	950 / 958 967 / 949 930 / 939 930 / 939 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736 903 / .557 /  1-NN 910 / 920 949 / .888 925 / .934 961 / .904 961 / .904 963 / .965 992 / .935 960 / .963 992 / .935 960 / .963 992 / .935	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 918 908 / 919 919 / 929 967 / 949 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768 960 / 768 /  new-thyroid2 3-NN 876 / 889 995 / 975 914 / 922 992 / 946 896 / 900 995 / 930 882 / 887 992 / 954 910 / 920 995 / 975 921 / 924 993 / 945 901 / 907 992 / 935 926 / 931 992 / 935 990 / 934	859 / 870 964 / 936 877 / 891 963 / 935 890 / 902 962 / 924 906 / 918 964 / 938 854 / 869 982 / 970 854 / 870 958 / 918 869 / 886 965 / 943 757 / 784 973 / 862	996 / 977 887 / 896 996 / 977 898 / 906 996 / 977 903 / 910 996 / 977 903 / 929 996 / 977 907 / 914 996 / 977 813 / 831 995 / 965 /  NB 927 / 933 996 / 971 878 / 891 996 / 971 878 / 891 996 / 971 907 / 933 996 / 971 907 / 933 996 / 971 907 / 933 996 / 971 907 / 933 996 / 971 907 / 933 996 / 971 907 / 933 996 / 971 907 / 933 996 / 971 907 / 933 996 / 971	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 980 / 971 1.00 / 1.00 975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 923 / 929 999 / 994 /  RF 916 / 926 993 / 966 916 / 926 993 / 966 916 / 926 996 / 977 925 / 934 997 / 988 930 / 939 996 / 977 988 / 989 989 / 989 989 / 989 980 / 937 939 / 947 996 / 977 939 / 947 998 / 990	922 / 92 997 / 98 872 / 88 994 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 996 / 98 973 / 88 994 / 97 896 / 90 993 / 97 / SVM 913 / 91 990 / 94 991 / 99 991 / 99 994 / 96 991 / 99 994 / 96 994 / 99 994 / 96 994 / 96 997 / 91 997 / 91 997 / 99 994 / 96 994 / 99 994 / 96 997 / 99 994 / 96 993 / 99 994 / 96 997 / 99 994 / 96 993 / 99 994 / 96 993 / 99 994 / 96 995 / 96 996 / 99 997 / 99 998 / 99 999 / 94 998 / 99 998 / 99 998 / 99 998 / 98
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ ROSE TOP+ ROSE TOP+ ROSE TOP+ ROSE TOP+	AUROC / AUPRC F1 / GM	936 / 880 927 / 933 927 / 933 957 / 905 835 / 851 872 / 780 932 / 937 973 / 900 916 / 923 962 / 878 963 / 965 982 / 944 940 / 944 956 / 924 862 / 872 914 / 771 870 / 877 955 / 756 913 / 933 /  C4.5  848 / 854 929 / 847 852 / 866 914 / 814 863 / 877 920 / 836 840 / 845 871 / 886 927 / 833 886 / 900 930 / 858 886 / 900 930 / 858 886 / 900 930 / 858 886 / 900 930 / 858 886 / 900 930 / 858 886 / 900 930 / 858 886 / 900 930 / 858	941 / 947 972 / 965 888 / 899 972 / 966 888 / 899 999 / 994 960 / 963 949 / 952 983 / 962 960 / 963 974 / 966 901 / 913 999 / 994 873 / 881 997 / 989 /  C5.0 847 / 852 968 / 889 849 / 863 945 / 863 945 / 863 945 / 863 945 / 863 863 / 877 995 / 978 941 / 944 999 / 997 897 / 910 991 / 961 897 / 910 991 / 961 887 / 910 991 / 961 887 / 910 991 / 961	929 / 934 999 / 994 999 / 994 896 / 968 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 871 / 886 1.00 / 1.00 923 / 929 1.00 / 1.00 923 / 929 1.00 / 1.00 923 / 929 1.00 / 1.00 923 / 929 1.00 / 1.00 923 / 929 1.00 / 1.00 923 / 929 1.00 / 1.00 923 / 929 1.00 / 1.00 923 / 929 930 / 966 866 / 872 990 / 962 995 / 907 984 / 925 902 / 904 988 / 931 920 / 922 991 / 943 997 / 997 991 / 956 913 / 915 991 / 956 913 / 915 991 / 956 913 / 915 991 / 956 913 / 915 991 / 956 988 / 931 897 / 899	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 / / /  GLM 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 943 / 947 1.00 / 1.00 929 / 930 981 / 962 996 / 977 958 / 962 996 / 977 958 / 962 996 / 977	950 / 958 967 / 949 930 / 939 930 / 939 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736 903 / 557 / 1-NN 910 / 920 949 / 888 910 / 920 949 / 888 925 / 934 961 / 904 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888 910 / 920 949 / 888	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 918 908 / 919 919 / 929 967 / 949 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768 960 / 768 / new-thyroid2 3-NN 876 / 889 995 / 975 914 / 922 992 / 946 896 / 900 990 / 930 882 / 887 992 / 945 910 / 920 995 / 975 911 / 922 995 / 975 914 / 922 992 / 946 896 / 900 990 / 930 887 / 889 990 / 930 887 / 889 991 / 992 / 935 926 / 931 992 / 930 889 / 930 / 944 743 / 767	.859 / .870 .964 / .936 .877 / .891 .963 / .935 .890 / .902 .962 / .924 .906 / .918 .964 / .938 .854 / .869 .982 / .970 .854 / .870 .958 / .918 .869 / .886 .965 / .943 .757 / .784 .973 / .862 / / / 5-NN .820 / .837 .994 / .977 .883 / .893 .994 / .952 .891 / .988 .991 / .946 .822 / .833 .992 / .958 .865 / .878 .997 / .986 .991 / .917 .997 / .983 .867 / .875 .986 / .952 .887 / .875 .986 / .952	996 / 977 887 / 896 996 / 977 898 / 906 996 / 977 903 / 910 996 / 977 923 / 929 996 / 977 907 / 914 996 / 977 813 / 831 996 / 977 875 / 888 996 / 971 875 / 888 996 / 971 913 / 920 996 / 977 927 / 933 996 / 971 927 / 933 996 / 971 927 / 933 996 / 971 927 / 933 996 / 971 927 / 933 996 / 971 927 / 933 996 / 971 927 / 933 996 / 971 927 / 933	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 923 / 929 999 / 994/  RF  916 / 926 993 / 966 916 / 926 993 / 966 916 / 926 996 / 977 925 / 934 997 / 988 930 / 939 996 / 977 989 / 999 1.00 / 1.00 939 / 947 996 / 977 998 / 990 939 / 947 996 / 977 919 / 929 990 / 991 866 / 873	922 / 92 997 / 98 872 / 88 872 / 88 872 / 88 994 / 97 916 / 92 992 / 94 955 / 95 1.00 / 1.0 921 / 92 997 / 98 873 / 88 894 / 97 896 / 90 993 / 97 /  SVM 913 / 91 990 / 94 891 / 90 991 / 96 911 / 91 988 / 94 997 / 94 999 / 94 991 / 94 991 / 94 991 / 94 991 / 94 993 / 96 944 / 94 991 / 94 993 / 96 984 / 97 993 / 98 993 / 93 990 / 94 867 / 87 988 / 95 876 / 88
TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ SMOTE TOP+ SMOTE TOP+ SMOTE OP+ SMOTE OVUN	AUROC / AUPRC F1 / GM AUROC / AUPRC	936 / .880 .927 / .933 .927 / .933 .957 / .905 .835 / .851 .872 / .780 .932 / .937 .973 / .900 .916 / .923 .962 / .878 .963 / .965 .982 / .944 .940 / .944 .956 / .924 .862 / .872 .914 / .771 .870 / .877 .955 / .756 .913 /933 /  C4.5 .848 / .854 .929 / .847 .852 / .866 .914 / .814 .863 / .877 .902 / .906 .944 / .840 .871 / .886 .927 / .833 .886 / .900 .930 / .858 .886 / .900 .930 / .858 .886 / .900 .930 / .858 .886 / .858 .836 / .858 .836 / .858 .838 / .858 .838 / .858	941 / 947 972 / 968 888 / 889 999 / 994 960 / 963 996 / 968 949 / 952 983 / 962 963 / 965 983 / 962 960 / 963 974 / 966 901 / 913 997 / 989 /  C5.0  847 / 852 968 / 889 849 / 863 863 / 877 942 / 854 882 / 897 995 / 978 941 / 944 999 / 997 997 / 910 991 / 961 887 / 910 991 / 961 887 / 910 991 / 961 887 / 910 991 / 961 887 / 910 991 / 961 887 / 910 991 / 961 887 / 910 991 / 961 887 / 910 991 / 961 887 / 910 991 / 961	929 / 934 999 / 994 896 / 995 1.00 / 1.00 966 / 968 1.00 / 1.00 946 / 950 999 / 994 927 / 934 1.00 / 1.00 927 / 934 1.00 / 1.00 923 / 929 1.00 / 1.00 / XGB 844 / 853 993 / 966 866 / 872 990 / 962 905 / 907 988 / 931 920 / 922 991 / 956 913 / 915 991 / 956 913 / 915 991 / 956 867 / 870 998 / 931	960 / 963 988 / 984 940 / 944 985 / 959 975 / 976 1.00 / 1.00 975 / 976 988 / 984 949 / 952 997 / 975 949 / 952 997 / 975 940 / 944 968 / 935 920 / 926 1.00 / 1.00 /  GLM 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938 909 / 912 964 / 938	950 / 958 967 / 949 930 / 939 930 / 939 950 / 925 950 / 958 967 / 949 939 / 947 964 / 929 930 / 939 950 / 925 939 / 947 964 / 929 930 / 939 950 / 925 698 / 736 903 / .557 /  1-NN 910 / 920 949 / .888 925 / .934 961 / .904 961 / .904 963 / .965 992 / .935 960 / .963 992 / .935 960 / .963 992 / .935	905 / 915 965 / 943 857 / 873 964 / 938 908 / 918 908 / 918 908 / 919 919 / 929 967 / 949 919 / 929 967 / 949 919 / 929 967 / 949 905 / 915 965 / 939 737 / 768 960 / 768 /  new-thyroid2 3-NN 876 / 889 995 / 975 914 / 922 992 / 946 896 / 900 995 / 930 882 / 887 992 / 954 910 / 920 995 / 975 921 / 924 993 / 945 901 / 907 992 / 935 926 / 931 992 / 935 990 / 934	859 / 870 964 / 936 877 / 891 963 / 935 890 / 902 962 / 924 906 / 918 964 / 938 854 / 869 982 / 970 854 / 870 958 / 918 869 / 886 965 / 943 757 / 784 973 / 862	996 / .977 .887 / .896 .996 / .977 .898 / .906 .996 / .977 .903 / .910 .996 / .977 .923 / .929 .996 / .977 .907 / .914 .996 / .977 .813 / .831 .995 / .965 /	975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 980 / 971 1.00 / 1.00 975 / 976 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00 989 / 989 1.00 / 1.00	955 / 958 1.00 / 1.00 951 / 955 1.00 / 1.00 986 / 987 1.00 / 1.00 986 / 987 1.00 / 1.00 969 / 971 1.00 / 1.00 955 / 958 998 / 993 966 / 968 1.00 / 1.00 923 / 929 999 / 994 /  RF 916 / 926 993 / 966 916 / 926 993 / 966 916 / 926 996 / 977 925 / 934 997 / 988 930 / 939 996 / 977 988 / 989 989 / 989 989 / 989 980 / 937 939 / 947 996 / 977 939 / 947 998 / 990	997 / 988   922 / 927   927 / 928   927 / 928   872 / 885   994 / 978   916 / 922   929 / 947   955 / 958   1.00 / 1.00   921 / 922   921 / 922   921 / 925   921 / 925   921 / 925   921 / 925   931 / 931   931 / 931   931 / 931   931 / 931   931 / 931   931 / 931   931 / 931   931 / 931   931 / 931   931 / 931   931 / 931   931 / 931   933 / 936   933 / 936   933 / 936   939 / 946   938 / 945   938 / 952   867 / 876   988 / 952   876 / 882   993 / 966   934 / 946   933 / 936   933 / 936   939 / 946   939 / 949   939 / 946   939 / 949   939 / 940   940   940   950    950

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AUROC / AUPRO

DBSM\*

						n	age-blocks-1-3 vs	4				
	Metrics	C1.5	CE 0	VCD	GLM				ND	NN	RF	CVM
-	E1 /CM	C4.5 .769 / .784	C5.0	XGB		1-NN	3-NN	5-NN	NB	NN		SVM
BASE	F1 / GM		.811 / .822	.602 / .619	.594 / .620	.667 / .688	.618 / .642	.611 / .636	.468 / .485	.802 / .823	.860 / .870	.739 / .763
	AUROC / AUPRC	.955 / .659	.989 / .928	.991 / .864	.976 / .715	.905 / .514	.960 / .681	.975 / .776	.931 / .598	.983 / .835	.996 / .949	.987 / .858
ROS	F1 / GM	<b>.967</b> / .971	.910 / .915	<b>.967</b> / .971	.627 / .677	.798 / .811	.701 / .733	.612 / .659	.575 / .599	.867 / .880	.950 / .958	.907 / .916
ROS	AUROC / AUPRC	.998 / .950	.996 / .935	1.00 / 1.00	.920 / .526	.903 / .709	.957 / .774	.957 / .773	.948 / .658	.997 / .947	1.00 / 1.00	.997 / .979
SMOTE	F1 / GM	<b>.967</b> / .971	.932 / .939	<b>.967</b> / .971	.549 / .596	<b>.867</b> / .873	.778 / .801	.686 / .725	.675 / .701	<b>.932</b> / .939	.917 / .928	.907 / .916
SWICTE	AUROC / AUPRC	.998 / .950	.998 / .950	1.00 / 1.00	.821 / .459	.953 / .793	.993 / .837	.992 / .820	.948 / .689	.992 / .951	1.00 / 1.00	1.00 / 1.00
D.C.I.C.	F1 / GM	<b>.967</b> / .971	.967 / .971	.553 / .583	.645 / .666	.798 / .811	.754 / .770	.666 / .672	.496 / .514	.799 / .806	.933 / .941	.797 / .806
RSLS	AUROC / AUPRC	.998 / .950	.998 / .950	.988 / .901	.930 / .732	.903 / .709	.957 / .831	.947 / .755	.947 / .664	.996 / .928	1.00 / 1.00	.996 / .931
	F1 / GM	<b>.967</b> / .971	<b>.986</b> / .987	.834 / .845	.745 / .751	.837 / .850	.786 / .801	.725 / .752	.518 / .542	.932 / .935	1.00 / 1.00	.921 / .923
TOP+V	AUROC / AUPRC	.998 / .950	.999 / .975	.993 / .914	.977 / .850	.957 / .754	.960 / .853	.965 / .771	.949 / .628	.997 / .958	1.00 / 1.00	.998 / .970
TOD												
TOP+	F1 / GM	<b>.967</b> / .971	.967 / .971	<b>.967</b> / .971	.713 / .727	.812 / .830	.786 / .801	.730 / .742	.559 / .582	.907 / .916	1.00 / 1.00	<b>.936</b> / .937
ROSE	AUROC / AUPRC	.998 / .950	.998 / .950	1.00 / 1.00	.915 / .602	.941 / .729	.959 / .852	.955 / .820	.947 / .711	.997 / .938	1.00 / 1.00	.998 / .970
TOP+	F1 / GM	<b>.967</b> / .971	.967 / .971	<b>.967</b> / .971	.713 / .727	.856 / .864	<b>.786</b> / .801	.728 / .739	.496 / .514	.881 / .887	.967 / .971	<b>.936</b> / .937
SMOTE	AUROC / AUPRC	.998 / .950	.998 / .950	1.00 / 1.00	.915 / .602	.952 / .778	.959 / .852	.954 / .801	.945 / .598	.997 / .967	1.00 / 1.00	.998 / .970
TOP+	F1 / GM	<b>.967</b> / .971	.967 / .971	<b>.967</b> / .971	.713 / .727	.819 / .826	<b>.786</b> / .801	.728 / .739	.496 / .514	.907 / .916	.980 / .982	<b>.936</b> / .937
RSLS	AUROC / AUPRC	.998 / .950	.998 / .950	1.00 / 1.00	.915 / .602	.918 / .728	.959 / .852	.954 / .801	.945 / .598	.997 / .938	.999 / .990	.998 / .970
OMB	F1 / GM	.908 / .919	.967 / .971	.540 / .569	.583 / .616	.798 / .811	.764 / .783	.666 / .672	.496 / .514	.865 / .878	.919 / .928	.917 / .917
OVUN	AUROC / AUPRC	.990 / .875	.998 / .950	.992 / .916	.947 / .785	.903 / .709	.958 / .825	.945 / .748	.943 / .643	.994 / .907	.999 / .990	.997 / .951
	F1 / GM	.318 / .428	.328 / .426	.401 / .490	.544 / .584	.528 / .544	.418 / .429	.441 / .455	.573 / .609	.423 / .516	.438 / .516	.690 / .725
ROSE	AUROC / AUPRC	.847 / .192	.925 / .526	.943 / .670	.960 / .640	.753 / .405	.746 / .456	.742 / .455	.956 / .699	.954 / .555	.977 / .731	.984 / .832
	F1/GM	/	/	/	/	/	/	/	/	/	/	/
DBSM*	AUROC / AUPRC	/	/	/	/	/	/	/	/	/	/	/
	AUROC/AUPRC	/	/	/	/	/	/	/	/	/	/	/
	1	1										
	Metrics		1	1	1	1	pima					
		C4.5	C5.0	XGB	GLM	1-NN	3-NN	5-NN	NB	NN	RF	SVM
BASE	F1 / GM	.578 / .601	.568 / .600	.559 / .593	.636 / .651	.515 / .545	.513 / .543	.519 / .547	.606 / .621	.503 / .530	.569 / .600	.619 / .644
DASE	AUROC / AUPRC	.627 / .434	.685 / .515	.687 / .570	.775 / .635	.566 / .388	.592 / .412	.596 / .418	.713 / .524	.581 / .439	.692 / .515	.755 / .629
BOC.	F1 / GM	.634 / .637	.588 / .593	.680 / .685	.661 / .663	.543 / .544	.557 / .563	.573 / .579	.652 / .654	.560 / .564	.645 / .648	.654 / .658
ROS	AUROC / AUPRC	.712 / .549	.801 / .659	.828 / .694	.834 / .729	.652 / .494	.684 / .523	.707 / .550	.814 / .676	.702 / .533	.820 / .695	.827 / .704
	F1 / GM	.599 / .607	.643 / .647	.633 / .637	.637 / .644	.545 / .546	.530 / .531	.546 / .550	.623 / .627	.536 / .538	.641 / .643	.634 / .637
SMOTE	AUROC / AUPRC	.715 / .567	.817 / .691	.832 / .734	.833 / .731	.651 / .487	.704 / .563	.734 / .624	.816 / .677	.695 / .545	.819 / .691	.830 / .723
	F1 / GM	.600 / .608	.643 / .647	.621 / .626	.637 / .644	.545 / .546	.530 / .531	.546 / .550	.623 / .627	.476 / .481	.632 / .636	.631 / .634
RSLS	AUROC / AUPRC	.725 / .595	.817 / .691	.826 / .723	.833 / .731	.651 / .487	.704 / .563	.734 / .624	.816 / .677	.688 / .511	.825 / .721	.831 / .724
										.583 / .586		
TOP+V	F1 / GM	.672 / .675	.670 / .674	.670 / .672	.674 / .677	.578 / .587	.584 / .589	.601 / .605	.660 / .665		.670 / .674	.664 / .668
	AUROC / AUPRC	.753 / .583	.821 / .697	.833 / .714	.817 / .691	.656 / .470	.704 / .520	.728 / .542	.778 / .612	.692 / .491	.821 / .694	.822 / .718
TOP+	F1 / GM	.656 / .658	.669 / .670	.686 / .695	.672 / .686	.593 / .597	.594 / .603	.621 / .631	.656 / .658	.579 / .590	.661 / .669	.665 / .674
ROSE	AUROC / AUPRC	.747 / .604	.816 / .702	.837 / .728	.832 / .724	.678 / .498	.712 / .536	.747 / .573	.816 / .682	.694 / .508	.800 / .653	.829 / .710
TOP+	F1 / GM	.658 / .658	.653 / .662	.684 / .694	.668 / .677	.592 / .597	.593 / .603	.619 / .630	<b>.660</b> / .663	.579 / .584	<b>.670</b> / .675	<b>.677</b> / .688
SMOTE	AUROC / AUPRC	.741 / .585	.787 / .634	.828 / .708	.833 / .730	.675 / .497	.710 / .534	.743 / .569	.815 / .681	.703 / .537	.815 / .694	.830 / .709
TOP+	F1 / GM	.658 / .658	.655 / .664	<b>.686</b> / .696	.670 / .674	<b>.593</b> / .597	<b>.594</b> / .603	<b>.621</b> / .631	.656 / .659	.579 / .598	.666 / .669	.666 / .677
RSLS	AUROC / AUPRC	.741 / .585	.788 / .639	.830 / .713	.823 / .706	.676 / .497	.712 / .536	.746 / .572	.815 / .682	.687 / .508	.810 / .672	.829 / .713
	F1 / GM	.620 / .622	.634 / .638	.660 / .661	.665 / .666	.559 / .560	.563 / .564	.576 / .578	.626 / .629	.533 / .535	.641 / .644	.655 / .657
OVUN	AUROC / AUPRC	.732 / .571	.814 / .704	.818 / .706	.829 / .722	.656 / .486	.705 / .547	.733 / .594	.801 / .661	.680 / .496	.812 / .698	.826 / .711
	F1 / GM	.611 / .619	.627 / .630	.642 / .644	.640 / .642	.559 / .561	.564 / .566	.569 / .570	.627 / .629	.476 / .482	.642 / .645	.629 / .632
ROSE			.792 / .674									.815 / .707
	AUROC / AUPRC	.744 / .582		.812 / .697	.829 / .715	.655 / .486	.705 / .545	.727 / .578	.802 / .663	.605 / .453	.807 / .685	
DBSM*	F1 / GM	/	/	/	/	/	/	/	/	/	/	/
	AUROC / AUPRC	/	/	/	/	/	/	/	/	/	/	/
	,	1										
	Metrics					•	vehicle1					
	Metrics	C4.5	C5.0	XGB	GLM	1-NN	3-NN	5-NN	NB	NN	RF	SVM
DASE	F1 / GM	.405 / .441	C5.0 .522 / .530	.440 / .471	.587 / .591	1-NN .423 / .424		<b>5-NN</b> .454 / .457	.513 / .523	NN .528 / .533	RF .501 / .507	SVM .464 / .487
BASE							3-NN					
	F1 / GM	.405 / .441	.522 / .530	.440 / .471	.587 / .591	.423 / .424	3-NN .438 / .441	.454 / .457	.513 / .523	.528 / .533	.501 / .507	.464 / .487
BASE ROS	F1 / GM AUROC / AUPRC F1 / GM	.405 / .441 .647 / .451 .492 / .494	.522 / .530 .854 / .651 .580 / .584	.440 / .471 .822 / .627 .619 / .632	.587 / .591 .875 / .695 <b>.664</b> / .676	.423 / .424 .613 / .358 .415 / .417	3-NN .438 / .441 .704 / .427 .501 / .515	.454 / .457 .757 / .498 .514 / .534	.513 / .523 .709 / .532 .517 / .537	.528 / .533 .837 / .622 .597 / .615	.501 / .507 .850 / .645 .595 / .596	.464 / .487 .845 / .652 .627 / .646
ROS	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379	.522 / .530 .854 / .651 .580 / .584 .857 / .661	.440 / .471 .822 / .627 .619 / .632 .847 / .625	.587 / .591 .875 / .695 .664 / .676 .875 / .688	.423 / .424 .613 / .358 .415 / .417 .609 / .356	3-NN .438 / .441 .704 / .427 .501 / .515 .692 / .399	.454 / .457 .757 / .498 .514 / .534 .721 / .416	.513 / .523 .709 / .532 .517 / .537 .709 / .529	.528 / .533 .837 / .622 .597 / .615 .829 / .606	.501 / .507 .850 / .645 .595 / .596 .865 / .644	.464 / .487 .845 / .652 .627 / .646 .864 / .658
	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439	3-NN .438 / .441 .704 / .427 .501 / .515 .692 / .399 .505 / .513	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610
ROS SMOTE	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357	3-NN .438 / .441 .704 / .427 .501 / .515 .692 / .399 .505 / .513 .719 / .421	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639
ROS	F1/GM AUROC / AUPRC F1/GM AUROC / AUPRC F1/GM AUROC / AUPRC F1/GM	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438	3-NN .438 / .441 .704 / .427 .501 / .515 .692 / .399 .505 / .513 .719 / .421 .498 / .503	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599
ROS SMOTE	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360	3-NN 438 / .441 704 / .427 .501 / .515 .692 / .399 .505 / .513 .719 / .421 .498 / .503 .722 / .423	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649
ROS SMOTE	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567	3-NN 438 / 441 704 / 427 501 / 515 692 / 399 505 / 513 719 / 421 498 / 503 722 / 423 554 / 582	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587
ROS SMOTE RSLS TOP+V	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .663 / .657 .619 / .633 .841 / .610	.440 / .471 822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587 .808 / .589	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415	3-NN 438 / 441 704 / 427 501 / 515 692 / 399 .505 / .513 719 / .421 498 / .503 722 / .423 .554 / .582 .740 / .424	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .587 / .649 .580 / .587 .816 / .576
ROS SMOTE RSLS TOP+V TOP+	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587 .808 / .589 .589 / .606	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415	3-NN 438 / 441 704 / 427 501 / 515 692 / 399 505 / 513 719 / 421 498 / 503 722 / 423 554 / 582 740 / 424 542 / 596	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .532 / .551	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587 .816 / .576
ROS SMOTE RSLS TOP+V TOP+ ROSE	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587 .808 / .589 .589 / .606 .815 / .565	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653 .653 / .664 .864 / .653	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380	3-NN 438 / 441 704 / 427 501 / 515 692 / 399 505 / 513 719 / 421 498 / 503 722 / 423 554 / 582 740 / 424 542 / 596 739 / 422	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .756 / .447	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .532	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587 .816 / .576 .631 / .665 .844 / .606
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .584 / .634 .582 / .587 .808 / .589 .589 / .606 .815 / .565 .553 / .555	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653 .653 / .664 .864 / .653	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585	3-NN 438 / 441 704 / 427 501 / 515 692 / 399 505 / 513 719 / 421 498 / 503 722 / 423 554 / 582 740 / 424 542 / 596 739 / 422 534 / 542	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .756 / .447	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .532 / .551 .729 / .535 .517 / .530	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587 .816 / .576 .631 / .665 .844 / .606 .651 / .664
ROS SMOTE RSLS TOP+V TOP+ ROSE	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587 .808 / .589 .589 / .606 .815 / .565	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653 .653 / .664 .864 / .653	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380	3-NN 438 / 441 704 / 427 501 / 515 692 / 399 505 / 513 719 / 421 498 / 503 722 / 423 554 / 582 740 / 424 542 / 596 739 / 422	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .756 / .447	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .532	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .857 / .649 .580 / .587 .816 / .576 .631 / .665 .844 / .606
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587 .808 / .589 .589 / .606 .815 / .565 .553 / .555 .804 / .560 .540 / .549	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .696 / .374	3-NN 438 / 441 704 / 427 501 / 515 692 / 399 505 / 513 719 / 421 498 / 503 722 / 423 554 / 582 740 / 424 542 / 596 739 / 422 534 / 542 734 / 432 538 / 581	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .756 / .447 .536 / .549	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .515 / .530 .517 / .530 .517 / .530	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .664 .620 / .628	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587 .816 / .576 .631 / .665 .844 / .606 .651 / .664
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE	F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .654 / .662 .619 / .629 .856 / .611	.440 / .471 822 / .627 .619 / .632 847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587 .808 / .589 .589 / .606 .553 / .555 .804 / .560	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .696 / .374	3-NN 438 / 441 704 / 427 501 / 515 692 / 399 505 / 513 719 / 421 498 / 503 722 / 423 554 / 582 740 / 424 542 / 596 739 / 422 534 / 542 734 / 432	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .540 / .556 .761 / .452 .536 / .549 .756 / .447 .756 / .447	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .532 / .551 .729 / .535 .517 / .530 .710 / .544	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .604	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .587 / .649 .580 / .587 .816 / .576 .631 / .665 .631 / .666 .651 / .664 .877 / .645
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS	F1/GM AUROC/AUPRC F1/GM	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .619 / .629	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587 .808 / .589 .589 / .606 .815 / .565 .553 / .555 .804 / .560 .540 / .549	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .696 / .374	3-NN 438 / 441 704 / 427 501 / 515 692 / 399 505 / 513 719 / 421 498 / 503 722 / 423 554 / 582 740 / 424 542 / 596 739 / 422 534 / 542 734 / 432 538 / 581	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .756 / .447 .536 / .549	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .515 / .530 .517 / .530 .517 / .530	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .664 .620 / .628	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587 .816 / .576 .631 / .665 .844 / .606 .651 / .664 .877 / .645 .659 / .675 .871 / .634 .513 / .525
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .619 / .629 .856 / .611	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587 .808 / .589 .589 / .606 .815 / .565 .553 / .555 .804 / .560 .540 / .549 .799 / .550	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653 .653 / .664 .866 / .667 .637 / .646 .866 / .667	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .696 / .374 .540 / .582 .700 / .384	3-NN 438 / 441 704 / 427 501 / 515 692 / 399 505 / 513 719 / 421 498 / 503 722 / 423 554 / 582 740 / 424 542 / 596 739 / 422 534 / 542 538 / 581 690 / 370	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .756 / .447 .536 / .549 .755 / .447	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .535 .517 / .530 .710 / .544 .517 / .530 .710 / .544	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .604 .620 / .628 .847 / .592	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587 .816 / .576 .631 / .665 .844 / .606 .651 / .664 .877 / .645 .659 / .675 .871 / .634
ROS  SMOTE  RSLS  TOP+V  TOP+ ROSE  TOP+ SMOTE  TOP+ RSLS  OVUN	F1/GM AUROC/AUPRC F1/GM	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .619 / .629	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587 .808 / .589 .589 / .606 .815 / .565 .553 / .555 .804 / .560 .540 / .549 .799 / .550 .501 / .519	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653 .653 / .664 .866 / .667 .637 / .646 .866 / .667 .592 / .595	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .696 / .374 .540 / .582 .700 / .384 .428 / .429	3-NN	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .532 / .551 .729 / .535 .517 / .530 .710 / .544 .517 / .530	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .605 / .608	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .604 .620 / .628 .847 / .592	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587 .816 / .576 .631 / .665 .844 / .606 .651 / .664 .877 / .645 .659 / .675 .871 / .634 .513 / .525
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .619 / .629 .856 / .611 .576 / .582 .863 / .664		.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667 .592 / .595 .876 / .701	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .696 / .374 .540 / .582 .700 / .384 .428 / .429 .616 / .360	3-NN 438 / 441 704 / 427 501 / 515 692 / 399 505 / 513 719 / 421 498 / 503 722 / 423 554 / 582 740 / 424 542 / 596 739 / 422 534 / 542 734 / 432 538 / 581 690 / 370 462 / 466 716 / 447		.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .532 / .551 .729 / .535 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .841 / .620	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .561 / .569 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .664 .620 / .628 .847 / .592 .551 / .560 .863 / .656	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587 .816 / .576 .631 / .665 .844 / .606 .651 / .664 .877 / .645 .659 / .675 .871 / .634 .513 / .525 .850 / .640
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .654	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587 .808 / .589 .589 / .606 .815 / .565 .553 / .555 .804 / .569 .540 / .549 .799 / .550 .501 / .519 .826 / .612 .589 / .605	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .696 / .374 .540 / .582 .700 / .384 .428 / .429 .616 / .360 .426 / .448	3-NN 438 / 441 704 / 427 501 / 515 692 / 399 505 / 513 719 / 421 498 / 503 722 / 423 554 / 582 740 / 424 542 / 596 739 / 422 534 / 542 734 / 432 538 / 581 690 / 370 462 / 466 716 / 447 468 / 486	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .484 / .487 .761 / .511 .500 / .519	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .535 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .831 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .561 / .564 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .664 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587 .631 / .665 .844 / .606 .651 / .664 .877 / .645 .659 / .675 .871 / .634 .513 / .525 .850 / .640 .559 / .575
ROS  SMOTE  RSLS  TOP+V  TOP+ ROSE  TOP+ SMOTE  TOP+ RSLS  OVUN	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587 .808 / .589 .589 / .606 .815 / .565 .553 / .555 .804 / .560 .540 / .549 .799 / .550 .501 / .519 .826 / .612 .589 / .605 .799 / .575	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653 .653 / .664 .866 / .667 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .696 / .374 .540 / .582 .700 / .384 .428 / .429 .426 / .448 .589 / .311	3-NN	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .484 / .487 .761 / .511 .500 / .519 .680 / .405	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .535 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536 .707 / .512	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .605 / .608 .851 / .659 .518 / .535 .725 / .450	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .604 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587 .816 / .576 .631 / .665 .844 / .606 .651 / .664 .877 / .645 .659 / .675 .871 / .634 .513 / .525 .850 / .640 .559 / .575 .786 / .548
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .611 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .584 / .538		.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .875 / .688 .644 / .648 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530		3-NN 438 / 441 704 / 427 501 / 515 692 / 399 505 / 513 719 / 421 498 / 503 722 / 423 554 / 582 740 / 424 542 / 596 739 / 422 534 / 542 534 / 542 734 / 432 538 / 581 690 / 370 462 / 466 716 / 447 468 / 486 651 / 373		.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .729 / .532 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .605 / .608 .851 / .659 .518 / .535 .518 / .535	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .561 / .564 .661 / .569 .662 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .660 .842 / .660 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .573 / .592	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587 .816 / .576 .631 / .665 .844 / .606 .651 / .664 .877 / .645 .659 / .675 .871 / .634 .513 / .525 .850 / .640
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .611 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .584 / .538		.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .875 / .688 .644 / .648 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530		3-NN 438 / 441 704 / 427 501 / 515 692 / 399 505 / 513 719 / 421 498 / 503 722 / 423 5554 / 582 740 / 424 542 / 596 739 / 422 534 / 542 734 / 432 538 / 581 690 / 370 462 / 466 716 / 447 468 / 486 651 / 373 / /		.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .729 / .532 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .605 / .608 .851 / .659 .518 / .535 .518 / .535	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .561 / .564 .661 / .569 .662 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .660 .842 / .660 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .573 / .592	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587 .816 / .576 .631 / .665 .844 / .606 .651 / .664 .877 / .645 .659 / .675 .871 / .634 .513 / .525 .850 / .640
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587 .808 / .589 .589 / .606 .815 / .565 .553 / .555 .804 / .560 .540 / .549 .799 / .550 .501 / .519 .826 / .612 .589 / .605 .799 / .575	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653 .653 / .664 .866 / .667 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .696 / .374 .540 / .582 .700 / .384 .428 / .429 .616 / .360 .426 / .448 .589 / .311	3-NN 438 / 441 704 / 427 501 / 515 692 / 399 505 / 513 719 / 421 498 / 503 722 / 423 554 / 582 740 / 424 542 / 596 739 / 422 534 / 542 734 / 432 538 / 581 690 / 370 462 / 466 716 / 447 468 / 486 651 / 373	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .484 / .487 .761 / .511 .500 / .519 .680 / .405	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .532 / .551 .729 / .535 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .710 / .544 .710 / .532 .710 / .536 .707 / .532	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .605 / .608 .851 / .659 .518 / .535 .725 / .450	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .604 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561	
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 / .730 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .856 / .611 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538		.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .696 / .374 .540 / .582 .700 / .384 .428 / .429 .616 / .360 .426 / .448 .589 / .311	3-NN	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .756 / .447 .536 / .549 .755 / .447 .484 / .487 .761 / .511 .500 / .519 .680 / .405	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .532 / .551 .729 / .535 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536 .707 / .512	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .450	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .561 / .564 .861 / .654 .862 / .652 .845 / .592 .612 / .630 .842 / .662 .845 / .592 .612 / .630 .842 / .664 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587 .631 / .665 .844 / .606 .651 / .664 .877 / .645 .659 / .675 .871 / .634 .513 / .525 .850 / .640 .559 / .575 .786 / .548
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538		.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530		3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .756 / .447 .536 / .549 .755 / .447 .540 / .540 / .540 .755 / .447 .540 / .540 / .540	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .532 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536 .707 / .512 /	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .450	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .664 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587 .631 / .665 .844 / .606 .651 / .664 .877 / .645 .659 / .675 .871 / .634 .513 / .525 .850 / .640 .559 / .575 .786 / .548
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .752 / .428 .452 / .478 .452 / .478 .452 / .478 .581 / .730 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587 .808 / .589 .589 / .606 .815 / .565 .553 / .555 .501 / .519 .826 / .612 .589 / .605 .799 / .575 /	.587 / .591 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530 /	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .685 / .380 .535 / .585 .700 / .384 .428 / .429 .426 / .448 .589 / .311 / /	3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840  952 / 892	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .756 / .447 .536 / .549 .755 / .447 .484 / .487 .755 / .447 .484 / .487 .761 / .511 .500 / .519 .680 / .405	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .535 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .709 / .535 .707 / .512 /	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .605 / .608 .851 / .659 .518 / .535 .725 / .450	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .604 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587 .816 / .576 .631 / .665 .844 / .606 .651 / .664 .659 / .675 .871 / .634 .513 / .525 .871 / .634 .539 / .575 .786 / .548 / / /
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 / .730 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 / /		.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530 /		3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840  952 / 892  815 / 822		.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .729 / .535 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536 .707 / .512 /	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .605 / .608 .851 / .659 .518 / .535 .725 / .450 	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .660 .842 / .660 .842 / .660 .842 / .660 .843 / .656 .573 / .592 .798 / .561 	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .856 / .639 .857 / .649 .580 / .587 .816 / .576 .631 / .665 .844 / .606 .651 / .664 .877 / .645 .659 / .675 .871 / .634 .513 / .525 .850 / .640 .559 / .575 .786 / .548 / /
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 / .730 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 /		.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .866 / .667 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530 /	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .696 / .374 .540 / .582 .700 / .384 .428 / .429 .616 / .360 .426 / .448 .589 / .311 /	3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840  952 / 892  815 / 822  943 / 833	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .756 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .484 / .487 .761 / .511 .500 / .519 .680 / .405 /	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .730 / .532 .732 / .535 .735 / .536 .737 / .536 .737 / .536 .738 / .538 .738 / .538 .739 / .536 .739 / .536	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .450 / .	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .861 / .654 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .664 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561 /	.464 / .487 .845 / .652 .627 / .646 .864 / .658 .605 / .610 .856 / .639 .596 / .599 .857 / .649 .580 / .587 .631 / .665 .844 / .606 .651 / .664 .877 / .645 .659 / .675 .871 / .634 .513 / .525 .850 / .640 .559 / .575 .786 / .548 /
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+SMOTE TOP+ RSLS OVUN ROSE DBSM*	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 / .730 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .654 .565 / .596 .784 / .538 /		.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530 /		3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840  952 / 892  815 / 822  943 / 833  845 / 849	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .756 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .757 / .488 / .487 .761 / .511 .500 / .519 .680 / .405 /	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .532 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536 .707 / .512///	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .450 //////////////////	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .662 .845 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561 /	
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*	F1/GM AUROC/AUPRC		.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 /	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587 .808 / .589 .589 / .606 .815 / .565 .553 / .555 .501 / .519 .826 / .612 .589 / .605 .799 / .575 /	.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .875 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .686 / .374 .540 / .582 .700 / .384 .428 / .429 .616 / .360 .426 / .448 .589 / .311	3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  734 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840  952 / 892  815 / 822  943 / 833  845 / 849  956 / 891	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .484 / .487 .761 / .511 .500 / .519 .680 / .405	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .532 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536 .707 / .512	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .450	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .604 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561 / /	
ROS SMOTE  RSLS  TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .556 .708 / .560 .706 / .502 .560 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 / .730 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 / .		.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530 /		3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840  839 / 840  845 / 889  956 / 891  845 / 889	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .755 / .447 .536 / .549 .755 / .47 .536 / .549 .755 / .47 .536 / .549 .755 / .47 .536 / .549 .755 / .47 .536 / .549 .757 / .47 .536 / .549 .759 / .47 .536 / .549 .558 / .549	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .513 / .523 .510 / .532 .532 / .551 .729 / .535 .517 / .530 .710 / .544 .510 / .544 .510 / .544 .510 / .542 .710 / .537 .509 / .536 .707 / .512 / / / NB .593 / .598 .854 / .673 .651 / .658 .867 / .669 .632 / .636 .850 / .683 .621 / .626	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .842 / .645 .858 / .655 .858	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .561 / .564 .861 / .654 .862 / .652 .845 / .592 .612 / .630 .842 / .652 .845 / .592 .612 / .630 .842 / .664 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561 /	
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+SMOTE TOP+ RSLS OVUN ROSE DBSM*	F1/GM AUROC/AUPRC		.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 /	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587 .808 / .589 .589 / .606 .815 / .565 .553 / .555 .501 / .519 .826 / .612 .589 / .605 .799 / .575 /	.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .875 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .686 / .374 .540 / .582 .700 / .384 .428 / .429 .616 / .360 .426 / .448 .589 / .311	3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  734 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840  952 / 892  815 / 822  943 / 833  845 / 849  956 / 891	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .484 / .487 .761 / .511 .500 / .519 .680 / .405	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .532 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536 .707 / .512	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .450	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .604 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561 / /	
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .556 .708 / .560 .706 / .502 .560 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 / .730 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 / .		.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530 /		3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840  839 / 840  845 / 889  956 / 891  845 / 889	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .755 / .447 .536 / .549 .755 / .47 .536 / .549 .755 / .47 .536 / .549 .755 / .47 .536 / .549 .755 / .47 .536 / .549 .757 / .47 .536 / .549 .759 / .47 .536 / .549 .558 / .549	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .513 / .523 .510 / .532 .532 / .551 .729 / .535 .517 / .530 .710 / .544 .510 / .544 .510 / .544 .510 / .542 .710 / .537 .509 / .536 .707 / .512 / / / NB .593 / .598 .854 / .673 .651 / .658 .867 / .669 .632 / .636 .850 / .683 .621 / .626	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .842 / .645 .858 / .655 .858	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .561 / .564 .861 / .654 .862 / .652 .845 / .592 .612 / .630 .842 / .652 .845 / .592 .612 / .630 .842 / .664 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561 /	
ROS SMOTE  RSLS  TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE	F1/GM AUROC/AUPRC F1/GM	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 / .730 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .654 .565 / .596 .784 / .538 /	.440 / .471 .822 / .627 .619 / .632 .847 / .625 .586 / .589 .847 / .631 .589 / .591 .844 / .634 .582 / .587 .808 / .589 .589 / .606 .815 / .565 .553 / .555 .804 / .569 .540 / .549 .799 / .550 .501 / .519 .826 / .612 .589 / .606 .799 / .575 /	.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653 .856 / .653 .653 / .646 .864 / .653 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530////// .941 / .941 .992 / .982 .935 / .936 .991 / .979 .938 / .939 .992 / .981 .942 / .942 .992 / .981 .948 / .948		3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  734 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840  952 / 892  815 / 822  943 / 833  845 / 849  956 / 891  845 / 849  956 / 891  8845 / 884	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .756 / .447 .536 / .549 .755 / .447 .484 / .487 .751 / .511 .500 / .519 .680 / .405	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .532 .513 / .523 .709 / .532 .513 / .532 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .537 .509 / .536 .707 / .512	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .450 	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .604 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561 	
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V	F1/GM AUROC/AUPRC		.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 / .		.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .657 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530 / / /  GLM .941 / .941 .992 / .982 .935 / .936 .991 / .979 .938 / .939 .992 / .981 .942 / .942 .992 / .981 .948 / .948 .992 / .981		3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle  3-NN  839 / 840  952 / 892  815 / 822  943 / 833  845 / 847  958 / 894  841 / 849  956 / 891		.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .514 / .528 .705 / .532 .514 / .528 .705 / .532 .513 / .523 .52 / .551 .729 / .535 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536 .707 / .512 /	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .450 /	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .867 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .604 .620 / .628 .847 / .592 .551 / .560 .573 / .592 .798 / .561 /	
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+	F1/GM AUROC/AUPRC F1/GM	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 / .730 / .730 / .730 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 /		.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .866 / .667 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530 /	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .696 / .374 .540 / .582 .700 / .384 .428 / .429 .616 / .360 .426 / .448 .589 / .311 /	3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840  955 / 892  951 / 822  943 / 833  845 / 849  955 / 891  845 / 847  958 / 894  841 / 843  955 / 895	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .756 / .447 .536 / .549 .755 / .447 .761 / .511 .500 / .519 .760 / .519 .760 / .529 .760 /	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .532 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .707 / .512 /	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .450 /	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .861 / .654 .862 / .652 .845 / .592 .612 / .630 .842 / .662 .845 / .592 .612 / .630 .842 / .664 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561 /	
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 / .730 / .730 / .749 / .489 .749 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 /		.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .653 / .664 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530 /		3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840  952 / 892  815 / 822  943 / 833  845 / 849  956 / 891  844 / 843  955 / 894  841 / 843  955 / 895	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .756 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .750 / .519 .680 / .405	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .532 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536 .707 / .512	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .450 /	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .561 / .564 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .664 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561 /	
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+V TOP+ ROSE TOP+V	F1/GM AUROC/AUPRC		.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 /		.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530 / / / / / / / / / .941 / .941 .992 / .981 .948 / .948 .992 / .981 .948 / .948 .992 / .981 .943 / .944	423 / 424 613 / 358 415 / 417 609 / 356 437 / 439 619 / 357 436 / 438 620 / 360 551 / 567 706 / 415 527 / 558 685 / 380 535 / 585 696 / 374 540 / 582 700 / 384 428 / 429 616 / 360 426 / 448 589 / 311 / 1-NN 854 / 856 907 / 789 850 / 852 903 / 786 860 / 862 918 / 786 857 / 859 913 / 785 854 / 856 907 / 789 854 / 856 907 / 789	3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 422  534 / 432  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle  3-NN  839 / 840  952 / 892  815 / 822  943 / 833  845 / 849  956 / 891  844 / 843  955 / 895  885 / 895  885 / 895  885 / 895		.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .514 / .528 .705 / .532 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536 .537 / .599 .536 .537 / .599 .536 .537 / .599 .536 .537 / .599 .536 .537 / .599 .536 .599 / .598 .599 / .598	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .5450	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .660 .842 / .660 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .597 .998 / .996 .981 / .982 .999 / .997 .966 / .966 .977 / .977 .998 / .996 .981 / .982 .999 / .997 .998 / .996 .981 / .982 .999 / .997 .999 / .999 .997 / .977 .999 / .999 .997 / .977	
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .492 / .534 .721 / .428 .581 / .730 / .730 / .730 / .730 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .876 / .679 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 / / /  C5.0 .963 / .963 .998 / .994 .973 / .973 .999 / .997 .966 / .966 .998 / .998 .977 / .977 .999 / .997 .977 / .977 .999 / .997		.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .866 / .667 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530 /		3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle  3-NN  839 / 840  952 / 892  845 / 847  958 / 894  841 / 847  958 / 894  841 / 843  955 / 895  852 / 853  955 / 898  842 / 843  955 / 898  842 / 843  953 / 899	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .755 / .447 .536 / .549 .755 / .457 .536 / .549 .755 / .457 .756 / .547 .757 / .538 / .549 .757 / .538 / .549 .758	.513 / .523 .709 / .532 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .514 / .528 .705 / .532 .514 / .528 .709 / .532 .513 / .523 .513 / .523 .510 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536 .707 / .512 / .	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .450 /	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .561 / .564 .861 / .654 .862 / .652 .845 / .592 .612 / .630 .842 / .665 .845 / .592 .612 / .630 .842 / .664 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561 / .	
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+V TOP+ ROSE TOP+ TOP+ ROSE TOP+ SMOTE TOP+	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 / .730 / .730 / .730 / .730 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 /		.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .866 / .667 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530 / .	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .696 / .374 .540 / .582 .700 / .384 .428 / .429 .616 / .360 .426 / .448 .589 / .311 / .	3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840  952 / 892  815 / 822  943 / 833  845 / 849  956 / 891  844 / 843  955 / 895  884 / 843  955 / 898  884 / 843  955 / 898  884 / 843  955 / 898  884 / 843  955 / 898  884 / 843	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .550 / .519 .680 / .405 /	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .532 .514 / .528 .705 / .532 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .750 / .536 .707 / .512 /	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .450 //	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .861 / .654 .862 / .652 .845 / .592 .612 / .630 .842 / .664 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561 /	
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538///		.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .856 / .653 .856 / .653 .653 / .664 .864 / .653 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530//		3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  734 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840  952 / 892  815 / 822  943 / 833  845 / 849  956 / 891  844 / 843  955 / 895  852 / 853  955 / 898  842 / 843  955 / 898  842 / 843  955 / 898  845 / 843	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .756 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .55 / .487 .598 / .911 .790 / .799 .849 / .859 .825 / .829 .960 / .894 .828 / .830 .960 / .896 .815 / .819 .958 / .911 .838 / .840 .962 / .920 .815 / .819 .958 / .911 .815 / .819 .958 / .911	.513 / .523 .709 / .532 .517 / .537 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .532 .513 / .523 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .707 / .512	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .834 / .606 .640 / .645 .831 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .450////////	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .561 / .564 .561 / .564 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .662 .845 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561 /	
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+V TOP+ ROSE TOP+V TOP+ ROSE TOP+ SMOTE	F1/GM AUROC/AUPRC F1/GM		.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 /		.587 / .591 .875 / .695 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .653 / .646 .866 / .667 .592 / .544 .757 / .530 / /  GLM .941 / .941 .992 / .981 .942 / .942 .992 / .981 .944 / .942 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .944 / .925		3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840  952 / 892  815 / 822  943 / 833  845 / 847  958 / 891  845 / 847  955 / 895  852 / 853  955 / 895  8842 / 843  955 / 898  842 / 843  955 / 898  844 / 848  955 / 898		.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .517 / .537 .709 / .532 .514 / .528 .705 / .532 .514 / .528 .709 / .532 .513 / .523 .52 / .551 .729 / .535 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536 .707 / .512 /	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .605 / .608 .851 / .659 .518 / .535 .725 / .450/	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .861 / .654 .862 / .652 .845 / .592 .612 / .630 .842 / .665 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561 /	
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+V TOP+ ROSE TOP+ TOP+ ROSE TOP+ SMOTE TOP+	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 / .730 / .730 / .730 / .730 / .730 / .938 .941 / .942 .962 / .903 .938 / .939 .937 / .938 .935 / .935 .962 / .900 .939 / .933 .953 / .933 .953 / .933 .953 / .933 .953 / .933 .953 / .938 .922 / .933 .953 / .933 .953 / .933 .953 / .933 .953 / .935 .962 / .900	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 /		.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .866 / .667 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530 / .		3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  695 / 789  845 / 889  845 / 889  845 / 888  955 / 895  884 / 848  955 / 895	.454 / .457 .757 / .498 .514 / .534 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .747 / .438 .540 / .556 .756 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .750 / .511 .500 / .519 .680 / .405 /	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .532 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .707 / .512	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .450////////	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .861 / .654 .861 / .654 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .664 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561////////	
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ RSLS TOP+V TOP+ RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ SMOTE TOP+ SMOTE TOP+ SMOTE TOP+ RSLS OVUN	F1/GM AUROC/AUPRC		.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 /		.587 / .591 .875 / .695 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .653 / .646 .866 / .667 .592 / .544 .757 / .530 / /  GLM .941 / .941 .992 / .981 .942 / .942 .992 / .981 .944 / .942 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .943 / .944 .992 / .981 .944 / .925		3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840  952 / 892  815 / 822  943 / 833  845 / 847  958 / 891  845 / 847  955 / 895  852 / 853  955 / 895  8842 / 843  955 / 898  842 / 843  955 / 898  844 / 848  955 / 898		.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .517 / .537 .709 / .532 .514 / .528 .705 / .532 .514 / .528 .709 / .532 .513 / .523 .52 / .551 .729 / .535 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536 .707 / .512 /	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .605 / .608 .851 / .659 .518 / .535 .725 / .450/	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .861 / .654 .862 / .652 .845 / .592 .612 / .630 .842 / .665 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561 /	
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+V TOP+ ROSE TOP+V TOP+ ROSE TOP+ SMOTE	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 / .730 / .730 / .730 / .730 / .730 / .938 .941 / .942 .962 / .903 .938 / .939 .937 / .938 .935 / .935 .962 / .900 .939 / .933 .953 / .933 .953 / .933 .953 / .933 .953 / .933 .953 / .938 .922 / .933 .953 / .933 .953 / .933 .953 / .933 .953 / .935 .962 / .900	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 /		.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .866 / .667 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530 / .	.423 / .424 .613 / .358 .415 / .417 .609 / .356 .437 / .439 .619 / .357 .436 / .438 .620 / .360 .551 / .567 .706 / .415 .527 / .558 .685 / .380 .535 / .585 .696 / .374 .540 / .582 .700 / .384 .428 / .429 .616 / .360 .426 / .448 .589 / .311 / / /  1-NN .854 / .856 .907 / .789 .850 / .852 .903 / .786 .860 / .862 .913 / .785 .854 / .856 .907 / .789 .854 / .856 .907 / .789 .854 / .856 .907 / .789 .857 / .860 .915 / .789 .857 / .860 .915 / .789 .857 / .860 .915 / .789 .857 / .860 .915 / .789 .857 / .860 .915 / .789 .857 / .860 .915 / .789 .857 / .860 .915 / .789 .857 / .860 .915 / .789 .857 / .860 .915 / .789 .857 / .860 .915 / .789 .857 / .860 .915 / .789 .857 / .860 .915 / .789 .857 / .860 .915 / .789 .857 / .860 .915 / .789	3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  695 / 789  845 / 889  845 / 889  845 / 888  955 / 895  884 / 848  955 / 895	.454 / .457 .757 / .498 .514 / .534 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .747 / .438 .540 / .556 .756 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .750 / .511 .500 / .519 .680 / .405 /	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .532 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .707 / .512	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .450////////	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .861 / .654 .861 / .654 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .664 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561////////	
ROS SMOTE  RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ ROSE ROS	F1/GM AUROC/AUPRC	.405 / .441 .647 / .451 .492 / .494 .653 / .379 .561 / .565 .708 / .454 .605 / .610 .762 / .527 .599 / .605 .760 / .502 .560 / .589 .717 / .404 .567 / .617 .749 / .437 .576 / .614 .752 / .428 .452 / .478 .654 / .433 .492 / .534 .721 / .428 .581 / .730 /	.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .867 / .669 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 /		.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .874 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .653 / .664 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530 /		3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  734 / 424  542 / 596  739 / 422  534 / 542  734 / 432  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle2  3-NN  839 / 840  845 / 847  958 / 894  841 / 843  955 / 895  852 / 853  852 / 853  955 / 898  842 / 843  955 / 898  842 / 843  955 / 898  842 / 843  955 / 898  842 / 843  955 / 898  842 / 843  955 / 898  842 / 843  955 / 898  845 / 847  958 / 894	.454 / .457 .757 / .498 .514 / .534 .721 / .416 .522 / .533 .749 / .450 .510 / .518 .747 / .438 .540 / .556 .761 / .452 .536 / .549 .756 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .755 / .447 .536 / .549 .558 / .511 .500 / .519 .680 / .405 .558 / .911 .790 / .799 .949 / .859 .825 / .829 .960 / .894 .828 / .830 .960 / .896 .815 / .819 .958 / .911 .838 / .840 .962 / .920 .815 / .819 .958 / .911 .640 / .679 .900 / .690 .546 / .556	.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .532 .513 / .523 .709 / .532 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536 .707 / .512////////	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .841 / .620 .851 / .659 .518 / .535 .725 / .450	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .561 / .564 .561 / .564 .561 / .564 .561 / .569 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .630 .842 / .664 .620 / .628 .847 / .592 .551 / .560 .863 / .656 .573 / .592 .798 / .561	
ROS SMOTE RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ RSLS OVUN ROSE DBSM*  BASE ROS SMOTE RSLS TOP+V TOP+ RSLS TOP+V TOP+ RSLS TOP+V TOP+ ROSE TOP+ SMOTE TOP+ SMOTE TOP+ SMOTE TOP+ SMOTE TOP+ RSLS OVUN	F1/GM AUROC/AUPRC		.522 / .530 .854 / .651 .580 / .584 .857 / .661 .609 / .613 .876 / .674 .596 / .599 .863 / .657 .619 / .633 .841 / .610 .640 / .649 .854 / .602 .619 / .629 .856 / .611 .619 / .629 .856 / .611 .576 / .582 .863 / .664 .565 / .596 .784 / .538 /		.587 / .591 .875 / .695 .875 / .695 .664 / .676 .875 / .688 .644 / .648 .875 / .688 .644 / .648 .875 / .692 .660 / .664 .875 / .694 .639 / .653 .653 / .664 .864 / .653 .657 / .646 .866 / .667 .637 / .646 .866 / .667 .592 / .595 .876 / .701 .529 / .544 .757 / .530/		3-NN  438 / 441  704 / 427  501 / 515  692 / 399  505 / 513  719 / 421  498 / 503  722 / 423  554 / 582  740 / 424  542 / 596  739 / 422  534 / 422  534 / 432  534 / 542  739 / 422  538 / 581  690 / 370  462 / 466  716 / 447  468 / 486  651 / 373  /  vehicle  3-NN  839 / 840  952 / 892  815 / 822  943 / 833  845 / 849  955 / 891  844 / 843  955 / 895  852 / 853  955 / 898  842 / 843  953 / 893  845 / 849  966 / 691  577 / 7595  781 / 574		.513 / .523 .709 / .532 .517 / .537 .709 / .529 .520 / .536 .709 / .532 .514 / .528 .705 / .532 .514 / .528 .705 / .532 .513 / .523 .729 / .535 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .517 / .530 .710 / .544 .510 / .522 .710 / .537 .509 / .536 .509 / .536 .507 / .512	.528 / .533 .837 / .622 .597 / .615 .829 / .606 .601 / .608 .827 / .581 .622 / .625 .842 / .617 .624 / .634 .838 / .570 .642 / .648 .834 / .606 .640 / .645 .858 / .655 .613 / .620 .605 / .608 .851 / .659 .518 / .535 .725 / .450	.501 / .507 .850 / .645 .595 / .596 .865 / .644 .561 / .564 .861 / .654 .547 / .549 .860 / .650 .624 / .634 .844 / .586 .642 / .652 .845 / .592 .612 / .660 .842 / .660 .842 / .660 .842 / .660 .843 / .656 .573 / .592 .798 / .596 .571 / .500 .863 / .656 .573 / .592 .798 / .996 .981 / .982 .999 / .997 .966 / .966 .999 / .997 .966 / .966 .999 / .997 .977 / .977 .999 / .997 .977 / .977 .999 / .997 .977 / .977 .999 / .997 .977 / .977 .999 / .997 .999 / .997 .977 / .977 .999 / .997 .999 / .997 .977 / .977 .999 / .999	

							wisconsin					
	Metrics	C4.5	C5.0	XGB	GLM	1-NN	3-NN	5-NN	NB	NN	RF	SVM
DACE	F1 / GM	.945 / .946	.954 / .955	.952 / .953	.954 / .954	.942 / .943	.956 / .956	.960 / .960	.945 / .946	.947 / .948	.963 / .963	.942 / .943
BASE	AUROC / AUPRC	.959 / .949	.995 / .990	.991 / .979	.994 / .989	.955 / .930	.986 / .962	.992 / .979	.985 / .950	.992 / .983	.994 / .987	.987 / .964
ROS	F1 / GM	.943 / .944	.954 / .955	.946 / .947	.956 / .956	.938 / .938	.957 / .957	.958 / .959	.948 / .948	.947 / .947	.953 / .953	.946 / .947
ROS	AUROC / AUPRC	.952 / .933	.994 / .990	.989 / .974	.995 / .991	.952 / .930	.983 / .958	.987 / .960	.985 / .950	.993 / .984	.991 / .981	.987 / .956
SMOTE	F1 / GM	.945 / .945	.954 / .955	.948 / .948	.954 / .954	.942 / .943	.956 / .956	.960 / .960	.945 / .946	.948 / .949	.959 / .959	.942 / .943
SMOTE	AUROC / AUPRC	.962 / .951	.995 / .990	.990 / .977	.994 / .989	.955 / .930	.986 / .962	.992 / .979	.985 / .950	.991 / .980	.990 / .980	.988 / .964
RSLS	F1 / GM	.931 / .932	.950 / .950	.946 / .947	<b>.961</b> / .961	.947 / .947	.963 / .963	.963 / .963	.948 / .948	.954 / .954	.961 / .961	.950 / .951
KSLS	AUROC / AUPRC	.953 / .907	.993 / .983	.989 / .971	.995 / .989	.960 / .932	.986 / .957	.987 / .961	.985 / .950	.992 / .983	.992 / .980	.988 / .960
TOP+V	F1 / GM	<b>.951</b> / .951	.957 / .957	<b>.960</b> / .960	<b>.961</b> / .961	.945 / .945	.958 / .958	.962 / .962	.952 / .953	.954 / .954	<b>.965</b> / .965	.945 / .946
TOP+V	AUROC / AUPRC	.967 / .916	.992 / .988	.988 / .967	.995 / .990	.957 / .932	.986 / .962	.992 / .980	.988 / .960	.993 / .983	.993 / .986	.988 / .966
TOP+	F1 / GM	.945 / .946	<b>.963</b> / .964	.959 / .959	.959 / .960	<b>.962</b> / .963	.964 / .964	<b>.964</b> / .964	.950 / .951	<b>.963</b> / .964	<b>.965</b> / .965	.948 / .949
ROSE	AUROC / AUPRC	.959 / .949	.993 / .982	.991 / .978	.994 / .988	.979 / .933	.980 / .943	.986 / .957	.985 / .951	.993 / .982	.994 / .988	.983 / .936
TOP+	F1 / GM	.945 / .946	.956 / .956	.953 / .953	.956 / .956	.957 / .957	.962 / .963	.962 / .962	<b>.958</b> / .958	.953 / .954	.963 / .963	.951 / .952
SMOTE	AUROC / AUPRC	.959 / .949	.993 / .983	.990 / .978	.995 / .989	.970 / .930	.980 / .937	.990 / .971	.992 / .979	.992 / .982	.993 / .985	.977 / .913
TOP+	F1 / GM	.945 / .946	.958 / .958	.953 / .953	.956 / .956	.958 / .959	<b>.966</b> / .966	.962 / .962	<b>.958</b> / .958	.955 / .956	<b>.965</b> / .965	<b>.953</b> / .954
RSLS	AUROC / AUPRC	.959 / .949	.989 / .962	.990 / .978	.995 / .989	.975 / .922	.981 / .940	.990 / .971	.992 / .979	.991 / .977	.994 / .988	.981 / .924
OVUN	F1 / GM	.932 / .933	.961 / .962	.953 / .954	.959 / .959	.943 / .943	.955 / .955	.957 / .958	.944 / .944	.942 / .943	.953 / .954	.944 / .945
OVON	AUROC / AUPRC	.950 / .911	.993 / .988	.989 / .970	.995 / .989	.955 / .925	.982 / .950	.988 / .967	.987 / .960	.991 / .981	.992 / .980	.987 / .955
ROSE	F1 / GM	.936 / .936	.943 / .943	.957 / .958	.954 / .954	.929 / .930	.949 / .950	.945 / .945	.942 / .942	.950 / .950	.951 / .952	.945 / .946
KOSE	AUROC / AUPRC	.952 / .913	.990 / .974	.991 / .977	.995 / .989	.943 / .913	.978 / .952	.985 / .968	.988 / .964	.992 / .985	.989 / .969	.989 / .961
DBSM*	F1 / GM	.931 /	/	/	/	/	/	/	/	/	/	/
DDSM.	AUROC / AUPRC	.952 /	/	/	/	/	/	/	/	/	/	/

	Metrics						yeast1					
	Metrics	C4.5	C5.0	XGB	GLM	1-NN	3-NN	5-NN	NB	NN	RF	SVM
BASE	F1 / GM	.504 / .510	.551 / .556	.533 / .547	.446 / .470	.492 / .493	.535 / .539	.499 / .505	.496 / .569	.521 / .536	.553 / .559	.471 / .495
BASE	AUROC / AUPRC	.734 / .497	.788 / .595	.783 / .615	.791 / .595	.643 / .426	.737 / .530	.757 / .556	.762 / .533	.804 / .620	.799 / .629	.781 / .612
ROS	F1 / GM	.528 / .530	.563 / .567	.597 / .605	.582 / .591	.490 / .492	.569 / .578	.562 / .571	.486 / .562	.597 / .610	.563 / .564	.584 / .592
ROS	AUROC / AUPRC	.645 / .433	.775 / .602	.794 / .616	.790 / .596	.642 / .429	.726 / .491	.751 / .529	.758 / .528	.805 / .623	.798 / .628	.785 / .579
SMOTE	F1 / GM	<b>.595</b> / .598	.596 / .602	.608 / .610	.584 / .587	.505 / .505	<b>.589</b> / .595	<b>.573</b> / .578	.490 / .565	<b>.612</b> / .616	<b>.615</b> / .616	.580 / .583
SMOTE	AUROC / AUPRC	.734 / .502	.791 / .586	.789 / .605	.791 / .598	.650 / .423	.738 / .516	.754 / .527	.760 / .532	.806 / .623	.807 / .636	.789 / .594
RSLS	F1 / GM	.571 / .574	.581 / .584	.612 / .614	.579 / .581	.509 / .510	.562 / .566	.546 / .549	.493 / .567	.603 / .605	.589 / .590	.584 / .585
KSLS	AUROC / AUPRC	.716 / .481	.780 / .585	.798 / .623	.790 / .596	.653 / .432	.731 / .501	.751 / .533	.760 / .534	.807 / .619	.799 / .620	.791 / .600
TODIN	F1 / GM	.585 / .598	.595 / .610	.601 / .605	.591 / .603	<b>.539</b> / .579	.564 / .581	.560 / .588	.496 / .569	.600 / .616	.592 / .598	.586 / .589
TOP+V	AUROC / AUPRC	.741 / .478	.778 / .568	.782 / .610	.781 / .585	.659 / .386	.731 / .497	.702 / .418	.762 / .533	.789 / .605	.784 / .577	.763 / .584
TOP+	F1 / GM	.573 / .575	.605 / .606	.606 / .609	<b>.592</b> / .595	.520 / .560	.566 / .578	.554 / .558	.503 / .574	.605 / .608	.592 / .593	<b>.591</b> / .594
ROSE	AUROC / AUPRC	.726 / .500	.798 / .613	.799 / .619	.792 / .598	.638 / .372	.731 / .503	.753 / .536	.760 / .507	.805 / .624	.792 / .617	.788 / .598
TOP+	F1 / GM	.579 / .580	.586 / .588	.593 / .594	.559 / .591	<b>.539</b> / .549	.561 / .581	.559 / .582	.496 / .569	.597 / .598	.592 / .598	.583 / .585
SMOTE	AUROC / AUPRC	.718 / .487	.794 / .610	.794 / .603	.748 / .522	.669 / .420	.717 / .464	.729 / .469	.762 / .533	.805 / .618	.794 / .603	.789 / .603
TOP+	F1 / GM	.579 / .580	.587 / .599	.593 / .594	.559 / .591	.536 / .540	.561 / .577	.567 / .583	.496 / .569	.598 / .599	.598 / .601	.583 / .585
RSLS	AUROC / AUPRC	.718 / .487	.777 / .577	.794 / .603	.748 / .522	.668 / .432	.721 / .472	.737 / .490	.762 / .533	.805 / .618	.793 / .608	.789 / .603
OVUN	F1 / GM	.501 / .574	.495 / .569	.475 / .554	.476 / .555	.500 / .570	.492 / .568	.487 / .565	.457 / .540	.482 / .560	.508 / .577	.511 / .577
OVUN	AUROC / AUPRC	.614 / .337	.683 / .406	.646 / .370	.724 / .496	.597 / .337	.603 / .340	.606 / .342	.645 / .381	.690 / .424	.665 / .386	.646 / .376
DOCE	F1 / GM	.452 / .540	.452 / .540	.452 / .540	.583 / .592	.524 / .546	.555 / .577	.568 / .590	.464 / .547	.584 / .612	.453 / .541	.575 / .597
ROSE	AUROC / AUPRC	.507 / .292	.507 / .292	.507 / .292	.786 / .589	.651 / .391	.716 / .453	.743 / .492	.759 / .535	.794 / .610	.715 / .439	.783 / .594
DBSM*	F1 / GM	.573 /	/	/	/	/	/	/	/	/	/	/
DBSM.	AUROC / AUPRC	.698 /	/	/	/	/	/	/	/	/	/	/

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	Metrics	C4.5	C5.0	XGB	GLM	1-NN	3-NN	5-NN	NB	NN	RF	SVM
D + 65	F1 / GM	.768 / .772	.759 / .763	.765 / .770	.738 / .742	.649 / .656	.696 / .700	.749 / .753	.429 / .518	.697 / .705	.746 / .750	.749 / .755
BASE	AUROC / AUPRC	.934 / .704	.971 / .804	.968 / .848	.962 / .794	.801 / .515	.887 / .689	.929 / .757	.953 / .671	.972 / .819	.961 / .826	.973 / .840
DOG.	F1 / GM	.700 / .703	.776 / .780	.773 / .784	.655 / .676	.649 / .656	.664 / .678	.647 / .676	.301 / .419	.752 / .767	.784 / .787	.727 / .739
ROS	AUROC / AUPRC	.854 / .539	.970 / .797	.974 / .828	.962 / .796	.801 / .515	.880 / .597	.919 / .639	.952 / .670	.976 / .838	.968 / .819	.969 / .809
CMOTE	F1 / GM	.766 / .772	.759 / .764	.781 / .789	.676 / .693	.659 / .664	.674 / .683	.686 / .698	.361 / .464	.753 / .764	.779 / .783	.737 / .745
SMOTE	AUROC / AUPRC	.918 / .641	.970 / .794	.968 / .825	.963 / .795	.826 / .510	.906 / .608	.938 / .676	.945 / .659	.975 / .831	.969 / .811	.969 / .802
RSLS	F1 / GM	.765 / .770	.776 / .778	.784 / .787	.756 / .758	.651 / .658	.722 / .724	.752 / .755	.447 / .530	.785 / .787	.755 / .759	.769 / .773
KSLS	AUROC / AUPRC	.899 / .683	.968 / .816	.963 / .842	.963 / .796	.803 / .514	.892 / .705	.931 / .756	.947 / .665	.976 / .835	.967 / .829	.973 / .829
TOP+V	F1 / GM	<b>.798</b> / .801	<b>.784</b> / .791	<b>.808</b> / .813	.769 / .771	.671 / .677	.739 / .741	<b>.756</b> / .758	.429 / .518	<b>.813</b> / .815	.783 / .788	<b>.796</b> / .799
TOFTV	AUROC / AUPRC	.918 / .668	.971 / .821	.970 / .832	.961 / .796	.832 / .525	.910 / .706	.930 / .741	.953 / .671	.968 / .807	.973 / .833	.967 / .817
TOP+	F1 / GM	.786 / .790	.777 / .781	.796 / .799	.775 / .776	.671 / .677	.702 / .705	.749 / .753	.431 / .521	.788 / .789	.780 / .783	.790 / .793
ROSE	AUROC / AUPRC	.932 / .681	.964 / .804	.969 / .851	.962 / .797	.845 / .520	.901 / .665	.929 / .757	.937 / .499	.973 / .815	.971 / .830	.974 / .835
TOP+	F1 / GM	.786 / .790	.776 / .779	.799 / .804	.764 / .765	<b>.671</b> / .677	.702 / .705	.749 / .753	.429 / .518	.775 / .776	.785 / .789	.786 / .787
SMOTE	AUROC / AUPRC	.932 / .681	.969 / .807	.968 / .839	.961 / .798	.845 / .520	.901 / .665	.929 / .757	.953 / .671	.973 / .820	.974 / .844	.973 / .836
TOP+	F1 / GM	.786 / .790	.776 / .779	.800 / .805	.764 / .765	.671 / .677	.702 / .705	.749 / .753	.429 / .518	.775 / .776	<b>.790</b> / .796	.786 / .787
RSLS	AUROC / AUPRC	.932 / .681	.969 / .807	.968 / .824	.961 / .798	.845 / .520	.901 / .665	.929 / .757	.953 / .671	.973 / .819	.963 / .773	.973 / .836
OVUN	F1 / GM	.691 / .713	.730 / .745	.728 / .750	.599 / .643	.642 / .661	.618 / .653	.584 / .628	.320 / .428	.649 / .687	.732 / .745	.668 / .689
OVUN	AUROC / AUPRC	.909 / .468	.967 / .763	.968 / .766	.958 / .786	.868 / .475	.920 / .568	.928 / .604	.911 / .619	.972 / .821	.969 / .769	.956 / .774
ROSE	F1 / GM	.225 / .354	.199 / .331	.497 / .571	.658 / .679	.499 / .553	.546 / .597	.553 / .602	.250 / .377	.728 / .745	.212 / .343	.668 / .696
KOSE	AUROC / AUPRC	.570 / .153	.767 / .311	.954 / .626	.966 / .793	.837 / .332	.918 / .534	.939 / .638	.950 / .673	.976 / .831	.964 / .731	.971 / .822
DBSM*	F1 / GM	.705 /	/	/	/	/	/	/	/	/	/	/
DDSM	AUROC / AUPRC	.875 /	/	/	/	/	/	/	/	/	/	/

<sup>\*</sup>DBSM does not implemented in our experiment.