





Epoch 140/1000		-	0s	2ms/step	loss: 0.0883 - mse: 0.0883 - val_loss: 0.1385 - val_mse: 0.1385
Epoch 141/1000	loss: 0.1557 - val_mse: 0.1557	-	0s	2ms/step	loss: 0.1126 - mse: 0.1126 - val_loss: 0.1126 - val_mse: 0.1126
Epoch 142/1000	loss: 0.1466 - val_mse: 0.1466	-	0s	3ms/step	loss: 0.1795 - mse: 0.1795 - val_loss: 0.1795 - val_mse: 0.1795
Epoch 143/1000	loss: 0.1465 - val_mse: 0.1465	-	0s	2ms/step	loss: 0.1290 - mse: 0.1290 - val_loss: 0.1290 - val_mse: 0.1290
Epoch 144/1000	loss: 0.1519 - val_mse: 0.1519	-	0s	3ms/step	loss: 0.2260 - mse: 0.2260 - val_loss: 0.2260 - val_mse: 0.2260
Epoch 145/1000	loss: 0.1549 - val_mse: 0.1549	-	0s	2ms/step	loss: 0.0879 - mse: 0.0879 - val_loss: 0.0879 - val_mse: 0.0879
Epoch 146/1000	loss: 0.1575 - val_mse: 0.1575	-	0s	2ms/step	loss: 0.0989 - mse: 0.0989 - val_loss: 0.0989 - val_mse: 0.0989
Epoch 147/1000	loss: 0.1608 - val_mse: 0.1608	-	0s	2ms/step	loss: 0.2152 - mse: 0.2152 - val_loss: 0.2152 - val_mse: 0.2152
Epoch 148/1000	loss: 0.1632 - val_mse: 0.1632	-	0s	2ms/step	loss: 0.1089 - mse: 0.1089 - val_loss: 0.1089 - val_mse: 0.1089
Epoch 149/1000	loss: 0.1609 - val_mse: 0.1609	-	0s	3ms/step	loss: 0.1602 - mse: 0.1602 - val_loss: 0.1602 - val_mse: 0.1602
Epoch 150/1000	loss: 0.1554 - val_mse: 0.1554	-	0s	2ms/step	loss: 0.1441 - mse: 0.1441 - val_loss: 0.1441 - val_mse: 0.1441
Epoch 151/1000	loss: 0.1525 - val_mse: 0.1525	-	0s	2ms/step	loss: 0.1194 - mse: 0.1194 - val_loss: 0.1194 - val_mse: 0.1194
Epoch 152/1000	loss: 0.1440 - val_mse: 0.1440	-	0s	2ms/step	loss: 0.1400 - mse: 0.1400 - val_loss: 0.1400 - val_mse: 0.1400
Epoch 153/1000	loss: 0.1407 - val_mse: 0.1407	-	0s	2ms/step	loss: 0.1248 - mse: 0.1248 - val_loss: 0.1248 - val_mse: 0.1248
Epoch 154/1000	loss: 0.1373 - val_mse: 0.1373	-	0s	3ms/step	loss: 0.1485 - mse: 0.1485 - val_loss: 0.1485 - val_mse: 0.1485
Epoch 155/1000	loss: 0.1368 - val_mse: 0.1368	-	0s	3ms/step	loss: 0.1086 - mse: 0.1086 - val_loss: 0.1086 - val_mse: 0.1086
Epoch 156/1000	loss: 0.1385 - val_mse: 0.1385	-	0s	3ms/step	loss: 0.1580 - mse: 0.1580 - val_loss: 0.1580 - val_mse: 0.1580
Epoch 157/1000	loss: 0.1421 - val_mse: 0.1421	-	0s	3ms/step	loss: 0.0833 - mse: 0.0833 - val_loss: 0.0833 - val_mse: 0.0833
Epoch 158/1000	loss: 0.1429 - val_mse: 0.1429	-	0s	3ms/step	loss: 0.0600 - mse: 0.0600 - val_loss: 0.0600 - val_mse: 0.0600
Epoch 159/1000	loss: 0.1442 - val_mse: 0.1442	-	0s	3ms/step	loss: 0.1150 - mse: 0.1150 - val_loss: 0.1150 - val_mse: 0.1150
Epoch 160/1000	loss: 0.1437 - val_mse: 0.1437	-	0s	3ms/step	loss: 0.1468 - mse: 0.1468 - val_loss: 0.1468 - val_mse: 0.1468
Epoch 161/1000	loss: 0.1443 - val_mse: 0.1443	-	0s	3ms/step	loss: 0.1238 - mse: 0.1238 - val_loss: 0.1238 - val_mse: 0.1238
Epoch 162/1000	loss: 0.1387 - val_mse: 0.1387	-	0s	2ms/step	loss: 0.1603 - mse: 0.1603 - val_loss: 0.1603 - val_mse: 0.1603
Epoch 163/1000	loss: 0.1357 - val_mse: 0.1357	-	0s	2ms/step	loss: 0.2959 - mse: 0.2959 - val_loss: 0.2959 - val_mse: 0.2959
Epoch 164/1000	loss: 0.1345 - val_mse: 0.1345	-	0s	3ms/step	loss: 0.1731 - mse: 0.1731 - val_loss: 0.1731 - val_mse: 0.1731
Epoch 165/1000	loss: 0.1330 - val_mse: 0.1330	-	0s	2ms/step	loss: 0.0800 - mse: 0.0800 - val_loss: 0.0800 - val_mse: 0.0800
Epoch 166/1000	loss: 0.1311 - val_mse: 0.1311	-	0s	3ms/step	loss: 0.2032 - mse: 0.2032 - val_loss: 0.2032 - val_mse: 0.2032
Epoch 167/1000	loss: 0.1327 - val_mse: 0.1327	-	0s	3ms/step	loss: 0.1211 - mse: 0.1211 - val_loss: 0.1211 - val_mse: 0.1211
Epoch 168/1000	loss: 0.1316 - val_mse: 0.1316	-	0s	3ms/step	loss: 0.1143 - mse: 0.1143 - val_loss: 0.1143 - val_mse: 0.1143
Epoch 169/1000	loss: 0.1289 - val_mse: 0.1289	-	0s	2ms/step	loss: 0.0757 - mse: 0.0757 - val_loss: 0.0757 - val_mse: 0.0757
Epoch 170/1000	loss: 0.1332 - val_mse: 0.1332	-	0s	2ms/step	loss: 0.1438 - mse: 0.1438 - val_loss: 0.1438 - val_mse: 0.1438
Epoch 171/1000	loss: 0.1379 - val_mse: 0.1379	-	0s	3ms/step	loss: 0.1180 - mse: 0.1180 - val_loss: 0.1180 - val_mse: 0.1180
Epoch 172/1000	loss: 0.1426 - val_mse: 0.1426	-	0s	2ms/step	loss: 0.1431 - mse: 0.1431 - val_loss: 0.1431 - val_mse: 0.1431
Epoch 173/1000	loss: 0.1429 - val_mse: 0.1429	-	0s	2ms/step	loss: 0.1052 - mse: 0.1052 - val_loss: 0.1052 - val_mse: 0.1052
Epoch 174/1000	loss: 0.1414 - val_mse: 0.1414	-	0s	2ms/step	loss: 0.0924 - mse: 0.0924 - val_loss: 0.0924 - val_mse: 0.0924
Epoch 175/1000	loss: 0.1393 - val_mse: 0.1393	-	0s	2ms/step	loss: 0.1075 - mse: 0.1075 - val_loss: 0.1075 - val_mse: 0.1075
Epoch 176/1000	loss: 0.1				



Epoch 460/1000		-	0s	2ms/step	loss: 0.1403	mse: 0.1403	val
Epoch 461/1000	loss: 0.1063 - val_mse: 0.1063	-	0s	3ms/step	loss: 0.0687	mse: 0.0687	val
Epoch 462/1000	loss: 0.1026 - val_mse: 0.1026	-	0s	2ms/step	loss: 0.1411	mse: 0.1411	val
Epoch 463/1000	loss: 0.0992 - val_mse: 0.0992	-	0s	4ms/step	loss: 0.1256	mse: 0.1256	val
Epoch 464/1000	loss: 0.0953 - val_mse: 0.0953	-	0s	2ms/step	loss: 0.1801	mse: 0.1801	val
Epoch 465/1000	loss: 0.0930 - val_mse: 0.0930	-	0s	3ms/step	loss: 0.1293	mse: 0.1293	val
Epoch 466/1000	loss: 0.0914 - val_mse: 0.0914	-	0s	2ms/step	loss: 0.1146	mse: 0.1146	val
Epoch 467/1000	loss: 0.0906 - val_mse: 0.0906	-	0s	3ms/step	loss: 0.0966	mse: 0.0966	val
Epoch 468/1000	loss: 0.0905 - val_mse: 0.0905	-	0s	3ms/step	loss: 0.0769	mse: 0.0769	val
Epoch 469/1000	loss: 0.0897 - val_mse: 0.0897	-	0s	3ms/step	loss: 0.0621	mse: 0.0621	val
Epoch 470/1000	loss: 0.0914 - val_mse: 0.0914	-	0s	2ms/step	loss: 0.1120	mse: 0.1120	val
Epoch 471/1000	loss: 0.0956 - val_mse: 0.0956	-	0s	3ms/step	loss: 0.0767	mse: 0.0767	val
Epoch 472/1000	loss: 0.0963 - val_mse: 0.0963	-	0s	3ms/step	loss: 0.0909	mse: 0.0909	val
Epoch 473/1000	loss: 0.0954 - val_mse: 0.0954	-	0s	2ms/step	loss: 0.0721	mse: 0.0721	val
Epoch 474/1000	loss: 0.0954 - val_mse: 0.0954	-	0s	2ms/step	loss: 0.0642	mse: 0.0642	val
Epoch 475/1000	loss: 0.0952 - val_mse: 0.0952	-	0s	3ms/step	loss: 0.1709	mse: 0.1709	val
Epoch 476/1000	loss: 0.0931 - val_mse: 0.0931	-	0s	2ms/step	loss: 0.0753	mse: 0.0753	val
Epoch 477/1000	loss: 0.0931 - val_mse: 0.0931	-	0s	2ms/step	loss: 0.1241	mse: 0.1241	val
Epoch 478/1000	loss: 0.0933 - val_mse: 0.0933	-	0s	2ms/step	loss: 0.0657	mse: 0.0657	val
Epoch 479/1000	loss: 0.0956 - val_mse: 0.0956	-	0s	3ms/step	loss: 0.0784	mse: 0.0784	val
Epoch 480/1000	loss: 0.0961 - val_mse: 0.0961	-	0s	3ms/step	loss: 0.1278	mse: 0.1278	val
Epoch 481/1000	loss: 0.0963 - val_mse: 0.0963	-	0s	3ms/step	loss: 0.0931	mse: 0.0931	val
Epoch 482/1000	loss: 0.0971 - val_mse: 0.0971	-	0s	2ms/step	loss: 0.0632	mse: 0.0632	val
Epoch 483/1000	loss: 0.1009 - val_mse: 0.1009	-	0s	2ms/step	loss: 0.1110	mse: 0.1110	val
Epoch 484/1000	loss: 0.1013 - val_mse: 0.1013	-	0s	3ms/step	loss: 0.0998	mse: 0.0998	val
Epoch 485/1000	loss: 0.1006 - val_mse: 0.1006	-	0s	3ms/step	loss: 0.0772	mse: 0.0772	val
Epoch 486/1000	loss: 0.0970 - val_mse: 0.0970	-	0s	3ms/step	loss: 0.1014	mse: 0.1014	val
Epoch 487/1000	loss: 0.0953 - val_mse: 0.0953	-	0s	3ms/step	loss: 0.1024	mse: 0.1024	val
Epoch 488/1000	loss: 0.0950 - val_mse: 0.0950	-	0s	3ms/step	loss: 0.1924	mse: 0.1924	val
Epoch 489/1000	loss: 0.0956 - val_mse: 0.0956	-	0s	3ms/step	loss: 0.1534	mse: 0.1534	val
Epoch 490/1000	loss: 0.0966 - val_mse: 0.0966	-	0s	3ms/step	loss: 0.0665	mse: 0.0665	val
Epoch 491/1000	loss: 0.0938 - val_mse: 0.0938	-	0s	2ms/step	loss: 0.1504	mse: 0.1504	val
Epoch 492/1000	loss: 0.0903 - val_mse: 0.0903	-	0s	2ms/step	loss: 0.1250	mse: 0.1250	val
Epoch 493/1000	loss: 0.0893 - val_mse: 0.0893	-	0s	2ms/step	loss: 0.0613	mse: 0.0613	val
Epoch 494/1000	loss: 0.0883 - val_mse: 0.0883	-	0s	3ms/step	loss: 0.1347	mse: 0.1347	val
Epoch 495/1000	loss: 0.0863 - val_mse: 0.0863	-	0s	3ms/step	loss: 0.0745	mse: 0.0745	val
Epoch 496/1000	loss: 0.1101 - val_mse: 0.1101	ETA: 0s - loss: 0.0473 - mse: 0.047 - 0s 2ms/st	0s	3ms/step	loss: 0.0875	mse: 0.0875	val
Epoch 497/1000	loss: 0.0896 - val_mse: 0.0896	-	0s	3ms/step	loss: 0.0779	mse: 0.0779	val
Epoch 498/1000	loss: 0.0905 - val_mse: 0.0905	-	0s	2ms/step	loss: 0.1027	mse: 0.1027	val
Epoch 499/1000	loss: 0.0892 - val_mse: 0.0892	-	0s	3ms/step	loss: 0.1727	mse: 0.1727	val
Epoch 500/1000	loss: 0.0913 - val_mse: 0.0913	-	0s	3ms/step	loss: 0.0738	mse: 0.0738	val
Epoch 501/1000	loss: 0.0923 - val_mse: 0.0923	-	0s	2ms/step	loss: 0.1034	mse: 0.1034	val
Epoch 502/1000	loss: 0.0937 - val_mse: 0.0937	-	0s	3ms/step	loss: 0.1412	mse: 0.1412	val
Epoch 503/1000	loss: 0.0953 - val_mse: 0.0953	-	0s	3ms/step	loss: 0.0736	mse: 0.0736	val
Epoch 504/1000	loss: 0.0973 - val_mse: 0.0973	-	0s	2ms/step	loss: 0.1420	mse: 0.1420	val
Epoch 505/1000	loss: 0.0974 - val_mse: 0.0974	-	0s	2ms/step	loss: 0.0953	mse: 0.0953	val
Epoch 506/1000	loss: 0.0954 - val_mse: 0.0954	-	0s	2ms/step	loss: 0.0728	mse: 0.0728	val
Epoch 507/1000	loss: 0.0925 - val_mse: 0.0925	-	0s	3ms/step	loss: 0.1076	mse: 0.1076	val
Epoch 508/1000	loss: 0.0909 - val_mse: 0.0909	-	0s	3ms/step	loss: 0.0860	mse: 0.0860	val
Epoch 509/1000	loss: 0.0888 - val_mse: 0.0888	-	0s	3ms/step	loss: 0.0850	mse: 0.0850	val
Epoch 510/1000	loss: 0.0870 - val_mse: 0.0870	-	0s	3ms/step	loss: 0.0857	mse: 0.0857	val
Epoch 511/1000	loss: 0.0883 - val_mse: 0.0883	-	0s	2ms/step	loss: 0.0815	mse: 0.0815	val
Epoch 512/1000	loss: 0.0892 - val_mse: 0.0892	-	0s	2ms/step	loss: 0.0871	mse: 0.0871	val
Epoch 513/1000	loss: 0.0882 - val_mse: 0.0882	-	0s	2ms/step	loss: 0.0603	mse: 0.0603	val
Epoch 514/1000	loss: 0.0883 - val_mse: 0.0883	-	0s	2ms/step	loss: 0.0537	mse: 0.0537	val
Epoch 515/1000	loss: 0.0881 - val_mse: 0.0881	-	0s	2ms/step	loss: 0.0574	mse: 0.0574	val
Epoch 516/1000	loss: 0.0892 - val_mse: 0.0892	-	0s	3ms/step	loss: 0.1869	mse: 0.1869	val
Epoch 517/1000	loss: 0.0925 - val_mse: 0.0925	-	0s	2ms/step	loss: 0.0582	mse: 0.0582	val
Epoch 518/1000	loss: 0.0942 - val_mse: 0.0942	-	0s	3ms/step	loss: 0.0916	mse: 0.0916	val
Epoch 519/1000	loss: 0.0961 - val_mse: 0.0961	-	0s	3ms/step	loss: 0.0950	mse: 0.0950	val
Epoch 520/1000	loss: 0.0936 - val_mse: 0.0936	-	0s	2ms/step	loss: 0.1317	mse: 0.1317	val
Epoch 521/1000	loss: 0.0867 - val_mse: 0.0867	-	0s	3ms/step	loss: 0.0841	mse: 0.0841	val
Epoch 522/1000	loss: 0.0853 - val_mse: 0.0853	-	0s	3ms/step	loss: 0.1289	mse: 0.1289	val
Epoch 523/1000	loss: 0.0849 - val_mse: 0.0849	-	0s	3ms/step	loss: 0.1733	mse: 0.1733	val
Epoch 524/1000	loss: 0.0851 - val_mse: 0.0851	-	0s	3ms/step	loss: 0.1190	mse: 0.1190	val
Epoch 525/1000	loss: 0.0835 - val_mse: 0.0835	-	0s	5ms/step	loss: 0.1397	mse: 0.1397	val
Epoch 526/1000	loss: 0.0807 - val_mse: 0.0807	-	0s	4ms/step	loss: 0.0606	mse: 0.0606	val
Epoch 527/1000	loss: 0.0790 - val_mse: 0.0790	-	0s	4ms/step	loss: 0.0705	mse: 0.0705	val
Epoch 528/1000	loss: 0.0774 - val_mse: 0.0774	-	0s	3ms/step	loss: 0.1068	mse: 0.1068	val
Epoch 529/1000	loss: 0.0764 - val_mse: 0.0764	-	0s	3ms/step	loss: 0.0726	mse: 0.0726	val
Epoch 530/1000	loss: 0.0768 - val_mse: 0.0768	-	0s	3ms/step	loss: 0.0561	mse: 0.0561	val
Epoch 531/1000	loss: 0.0802 - val_mse: 0.0802	-	0s	3ms/step	loss: 0.1899	mse: 0.1899	val
Epoch 532/1000	loss: 0.0830 - val_mse: 0.0830	-	0s	3ms/step	loss: 0.0659	mse: 0.0659	val
Epoch 533/1000	loss: 0.0814 - val_mse: 0.0814	-	0s	3ms/step	loss: 0.1081	mse: 0.1081	val
Epoch 534/1000	loss: 0.0831 - val_mse: 0.0831	-	0s	3ms/step	loss: 0.0617	mse: 0.0617	val
Epoch 535/1000	loss: 0.0845 - val_mse: 0.0845	-	0s	2ms/step	loss: 0.0683	mse: 0.0683	val
Epoch 536/1000	loss: 0.0849 - val_mse: 0.0849	-	0s	3ms/step	loss: 0.1297	mse: 0.1297	val
Epoch 537/1000	loss: 0.0884 - val_mse: 0.0884	-	0s	3ms/step	loss: 0.0467	mse: 0.0467	val
Epoch 538/1000	loss: 0.0905 - val_mse: 0.0905	-	0s	3ms/step	loss: 0.0739	mse: 0.0739	val
Epoch 539/1000	loss: 0.0880 - val_mse: 0.0880	-	0s	2ms/step	loss: 0.1303	mse: 0.1303	val
Epoch 540/1000	loss: 0.0866 - val_mse: 0.0866	-	0s	2ms/step	loss: 0.0912	mse: 0.0912	val
Epoch 541/1000	loss: 0.0855 - val_mse: 0.0855	-	0s	3ms/step	loss: 0.0762	mse: 0.0762	val
Epoch 542/1000	loss: 0.0851 - val_mse: 0.0851	-	0s	3ms/step	loss: 0.0459	mse: 0.0459	val
Epoch 543/1000	loss: 0.0846 - val_mse: 0.0846	-	0s	3ms/step	loss: 0.1128	mse: 0.1128	val
Epoch 544/1000	loss: 0.0856 - val_mse: 0.0856	-	0s	3ms/step	loss: 0.0848	mse: 0.0848	val
Epoch 545/1000	loss: 0.0875 - val_mse: 0.0875	-	0s	3ms/step	loss: 0.0920	mse: 0.0920	val
Epoch 546/1000	loss: 0.0872 - val_mse: 0.0872	-	0s	3ms/step	loss: 0.0934	mse: 0.0934	val
Epoch 547/1000	loss: 0.0873 - val_mse: 0.0873	-	0s	3ms/step	loss: 0.1012	mse: 0.1012	val
Epoch 548/1000	loss: 0.0878 - val_mse: 0.0878	-	0s	3ms/step	loss: 0.0557	mse: 0.0557	val
Epoch 549/1000	loss: 0.0859 - val_mse: 0.0859	-	0s	3ms/step	loss: 0.0739	mse: 0.0739	val
Epoch 550/1000	loss: 0.0861 - val_mse: 0.0861	-	0s	3ms/step	loss: 0.0974	mse: 0.0974	val
Epoch 551/1000	loss: 0.0850 - val_mse: 0.0850	-	0s	4ms/step	loss: 0.1931	mse: 0.1931	val
Epoch 552/1000	loss: 0.0851 - val_mse: 0.0851	-	0s	4ms/step	loss: 0.0762	mse: 0.0762	val
Epoch 553/1000	loss: 0.0851 - val_mse: 0.0851	-	0s	3ms/step	loss: 0.1041	mse: 0.1041	val
Epoch 554/1000	loss: 0.0833 - val_mse: 0.0833	-	0s	3ms/step	loss: 0.1368	mse: 0.1368	val
Epoch 555/1000	loss: 0.0832 - val_mse: 0.0832	-	0s	3ms/step	loss: 0.1238	mse: 0.1238	val
Epoch 556/1000	loss: 0.0870 - val_mse: 0.0870	-	0s	3ms/step	loss: 0.0873	mse: 0.0873	val
Epoch 557/1000	loss: 0.0903 - val_mse: 0.0903	-	0s	3ms/step	loss: 0.0405	mse: 0.0405	val
Epoch 558/1000	loss: 0.0924 - val_mse: 0.0924	-	0s	3ms/step	loss: 0.0644	mse: 0.0644	val
Epoch 559/1000	loss: 0.0933 - val_mse: 0.0933	-	0s	3ms/step	loss: 0.1014	mse: 0.1014	val
Epoch 560/1000	loss: 0.0905 - val_mse: 0.0905	-	0s	3ms/step	loss: 0.1324	mse: 0.1324	val
Epoch 561/1000	loss: 0.0842 - val_mse: 0.0842	-	0s	3ms/step	loss: 0.1423	mse: 0.1423	val
Epoch 562/1000	loss: 0.0803 - val_mse: 0.0803	-	0s	3ms/step	loss: 0.0944	mse: 0.0944	val
Epoch 563/1000	loss: 0.0790 - val_mse: 0.0790	-	0s	3ms/step	loss: 0.1208	mse: 0.1208	val
Epoch 564/1000	loss: 0.0785 - val_mse: 0.0785	-	0s	3ms/step	loss: 0.0528	mse: 0.0528	val
Epoch 565/1000	loss: 0.0797 - val_mse: 0.0797	-	0s	3ms/step	loss: 0.1518	mse: 0.1518	val
Epoch 566/1000	loss: 0.0822 - val_mse: 0.0822	-	0s	3ms/step	loss: 0.1052	mse: 0.1052	val
Epoch 567/1000	loss: 0.0851 - val_mse: 0.0851	-	0s	3ms/step	loss: 0.0573	mse: 0.0573	val
Epoch 568/1000	loss: 0.0859 - val_mse: 0.0859	-	0s	3ms/step	loss: 0.0790	mse: 0.0790	val
Epoch 569/1000	loss: 0.0859 - val_mse: 0.0859	-	0s	4ms/step	loss: 0.0606	mse: 0.0606	val
Epoch 570/1000	loss: 0.0834 - val_mse: 0.0834	-	0s	4ms/step	loss: 0.1446	mse: 0.1446	val
Epoch 571/1000	loss: 0.0826 - val_mse: 0.0826	-	0s	4ms/step	loss: 0.1404	mse: 0.1404	val
Epoch 572/1000	loss: 0.0802 - val_mse: 0.0802	-	0s	3ms/step	loss: 0.0929	mse: 0.0929	val
Epoch 573/1000	loss: 0.0790 - val_mse: 0.0790	-	0s	4ms/step	loss: 0.1047	mse: 0.1047	val
Epoch 574/1000	loss: 0.0801 - val_mse: 0.0801	-	0s	3ms/step	loss: 0.0692	mse: 0.0692	val
Epoch 575/1000	loss: 0.0809 - val_mse: 0.0809	-	0s	2ms/step	loss: 0.1291	mse: 0.1291	val
Epoch 576/1000	loss: 0.0810 - val_mse: 0.0810	-	0s	3ms/step	loss: 0.1173	mse: 0.1173	val
Epoch 577/1000	loss: 0.0817 - val_mse: 0.0817	-	0s	3ms/step	loss: 0.1030	mse: 0.1030	val
Epoch 578/1000	loss: 0.0816 - val_mse: 0.0816	-	0s	3ms/step	loss: 0.0688	mse: 0.0688	val
Epoch 579/1000	loss: 0.0847 - val_mse: 0.0847	-	0s	2ms/step	loss: 0.0626	mse: 0.0626	val
Epoch 580/1000	loss: 0.0867 - val_mse: 0.0867	-	0s	3ms/step	loss: 0.1089	mse: 0.1089	val
Epoch 581/1000	loss: 0.0883 - val_mse: 0.0883	-	0s	2ms/step	loss: 0.1084	mse: 0.1084	val
Epoch 582/1000	loss: 0.						



	Epoch 780/1000	loss: 0.0846 - val_mse: 0.0846	-	0s 3ms/step	-	loss: 0.0931 - mse: 0.0931 - val_mse: 0.0931
	Epoch 781/1000	loss: 0.0846 - val_mse: 0.0846	-	0s 3ms/step	-	loss: 0.1263 - mse: 0.1263 - val_mse: 0.1263
	Epoch 782/1000	loss: 0.0836 - val_mse: 0.0836	-	0s 3ms/step	-	loss: 0.1263 - mse: 0.1263 - val_mse: 0.1263
	Epoch 783/1000	loss: 0.0809 - val_mse: 0.0809	-	0s 3ms/step	-	loss: 0.1211 - mse: 0.1211 - val_mse: 0.1211
	Epoch 784/1000	loss: 0.0808 - val_mse: 0.0808	-	0s 3ms/step	-	loss: 0.1198 - mse: 0.1198 - val_mse: 0.1198
	Epoch 785/1000	loss: 0.0840 - val_mse: 0.0840	-	0s 3ms/step	-	loss: 0.1121 - mse: 0.1121 - val_mse: 0.1121
	Epoch 786/1000	loss: 0.0872 - val_mse: 0.0872	-	0s 3ms/step	-	loss: 0.0515 - mse: 0.0515 - val_mse: 0.0515
	Epoch 787/1000	loss: 0.0892 - val_mse: 0.0892	-	0s 3ms/step	-	loss: 0.0804 - mse: 0.0804 - val_mse: 0.0804
	Epoch 788/1000	loss: 0.0890 - val_mse: 0.0890	-	0s 3ms/step	-	loss: 0.0707 - mse: 0.0707 - val_mse: 0.0707
	Epoch 789/1000	loss: 0.0854 - val_mse: 0.0854	-	0s 3ms/step	-	loss: 0.0723 - mse: 0.0723 - val_mse: 0.0723
	Epoch 790/1000	loss: 0.0884 - val_mse: 0.0884	-	0s 3ms/step	-	loss: 0.0617 - mse: 0.0617 - val_mse: 0.0617
	Epoch 791/1000	loss: 0.0834 - val_mse: 0.0834	-	0s 3ms/step	-	loss: 0.1819 - mse: 0.1819 - val_mse: 0.1819
	Epoch 792/1000	loss: 0.0817 - val_mse: 0.0817	-	0s 3ms/step	-	loss: 0.1119 - mse: 0.1119 - val_mse: 0.1119
	Epoch 793/1000	loss: 0.0812 - val_mse: 0.0812	-	0s 3ms/step	-	loss: 0.0397 - mse: 0.0397 - val_mse: 0.0397
	Epoch 794/1000	loss: 0.0802 - val_mse: 0.0802	-	0s 3ms/step	-	loss: 0.0796 - mse: 0.0796 - val_mse: 0.0796
	Epoch 795/1000	loss: 0.0791 - val_mse: 0.0791	-	0s 3ms/step	-	loss: 0.0864 - mse: 0.0864 - val_mse: 0.0864
	Epoch 796/1000	loss: 0.0792 - val_mse: 0.0792	-	0s 3ms/step	-	loss: 0.0844 - mse: 0.0844 - val_mse: 0.0844
	Epoch 797/1000	loss: 0.0788 - val_mse: 0.0788	-	0s 3ms/step	-	loss: 0.1067 - mse: 0.1067 - val_mse: 0.1067
	Epoch 798/1000	loss: 0.0768 - val_mse: 0.0768	-	0s 3ms/step	-	loss: 0.1341 - mse: 0.1341 - val_mse: 0.1341
	Epoch 799/1000	loss: 0.0749 - val_mse: 0.0749	-	0s 3ms/step	-	loss: 0.0646 - mse: 0.0646 - val_mse: 0.0646
	Epoch 800/1000	loss: 0.0749 - val_mse: 0.0749	-	0s 3ms/step	-	loss: 0.1241 - mse: 0.1241 - val_mse: 0.1241
	Epoch 801/1000	loss: 0.0746 - val_mse: 0.0746	-	0s 3ms/step	-	loss: 0.1051 - mse: 0.1051 - val_mse: 0.1051
	Epoch 802/1000	loss: 0.0751 - val_mse: 0.0751	-	0s 3ms/step	-	loss: 0.0515 - mse: 0.0515 - val_mse: 0.0515
	Epoch 803/1000	loss: 0.0756 - val_mse: 0.0756	-	0s 4ms/step	-	loss: 0.0774 - mse: 0.0774 - val_mse: 0.0774
	Epoch 804/1000	loss: 0.0751 - val_mse: 0.0751	-	0s 2ms/step	-	loss: 0.1568 - mse: 0.1568 - val_mse: 0.1568
	Epoch 805/1000	loss: 0.0754 - val_mse: 0.0754	-	0s 2ms/step	-	loss: 0.0964 - mse: 0.0964 - val_mse: 0.0964
	Epoch 806/1000	loss: 0.0765 - val_mse: 0.0765	-	0s 2ms/step	-	loss: 0.0720 - mse: 0.0720 - val_mse: 0.0720
	Epoch 807/1000	loss: 0.0766 - val_mse: 0.0766	-	0s 2ms/step	-	loss: 0.0423 - mse: 0.0423 - val_mse: 0.0423
	Epoch 808/1000	loss: 0.0767 - val_mse: 0.0767	-	0s 2ms/step	-	loss: 0.0715 - mse: 0.0715 - val_mse: 0.0715
	Epoch 809/1000	loss: 0.0760 - val_mse: 0.0760	-	0s 2ms/step	-	loss: 0.1201 - mse: 0.1201 - val_mse: 0.1201
	Epoch 810/1000	loss: 0.0764 - val_mse: 0.0764	-	0s 2ms/step	-	loss: 0.1707 - mse: 0.1707 - val_mse: 0.1707
	Epoch 811/1000	loss: 0.0771 - val_mse: 0.0771	-	0s 2ms/step	-	loss: 0.0586 - mse: 0.0586 - val_mse: 0.0586
	Epoch 812/1000	loss: 0.0774 - val_mse: 0.0774	-	0s 3ms/step	-	loss: 0.1868 - mse: 0.1868 - val_mse: 0.1868
	Epoch 813/1000	loss: 0.0780 - val_mse: 0.0780	-	0s 3ms/step	-	loss: 0.0779 - mse: 0.0779 - val_mse: 0.0779
	Epoch 814/1000	loss: 0.0784 - val_mse: 0.0784	-	0s 3ms/step	-	loss: 0.1499 - mse: 0.1499 - val_mse: 0.1499
	Epoch 815/1000	loss: 0.0798 - val_mse: 0.0798	-	0s 2ms/step	-	loss: 0.0596 - mse: 0.0596 - val_mse: 0.0596
	Epoch 816/1000	loss: 0.0796 - val_mse: 0.0796	-	0s 3ms/step	-	loss: 0.1092 - mse: 0.1092 - val_mse: 0.1092
	Epoch 817/1000	loss: 0.0821 - val_mse: 0.0821	-	0s 3ms/step	-	loss: 0.0865 - mse: 0.0865 - val_mse: 0.0865
	Epoch 818/1000	loss: 0.0827 - val_mse: 0.0827	-	0s 3ms/step	-	loss: 0.1509 - mse: 0.1509 - val_mse: 0.1509
	Epoch 819/1000	loss: 0.0838 - val_mse: 0.0838	-	0s 3ms/step	-	loss: 0.0647 - mse: 0.0647 - val_mse: 0.0647
	Epoch 820/1000	loss: 0.0839 - val_mse: 0.0839	-	0s 3ms/step	-	loss: 0.0990 - mse: 0.0990 - val_mse: 0.0990
	Epoch 821/1000	loss: 0.0840 - val_mse: 0.0840	-	0s 3ms/step	-	loss: 0.0663 - mse: 0.0663 - val_mse: 0.0663
	Epoch 822/1000	loss: 0.0824 - val_mse: 0.0824	-	0s 3ms/step	-	loss: 0.0684 - mse: 0.0684 - val_mse: 0.0684
	Epoch 823/1000	loss: 0.0827 - val_mse: 0.0827	-	0s 2ms/step	-	loss: 0.1028 - mse: 0.1028 - val_mse: 0.1028
	Epoch 824/1000	loss: 0.0826 - val_mse: 0.0826	-	0s 3ms/step	-	loss: 0.0487 - mse: 0.0487 - val_mse: 0.0487
	Epoch 825/1000	loss: 0.0834 - val_mse: 0.0834	-	0s 3ms/step	-	loss: 0.0670 - mse: 0.0670 - val_mse: 0.0670
	Epoch 826/1000	loss: 0.0820 - val_mse: 0.0820	-	0s 3ms/step	-	loss: 0.0871 - mse: 0.0871 - val_mse: 0.0871
	Epoch 827/1000	loss: 0.0821 - val_mse: 0.0821	-	0s 3ms/step	-	loss: 0.0694 - mse: 0.0694 - val_mse: 0.0694
	Epoch 828/1000	loss: 0.0831 - val_mse: 0.0831	-	0s 3ms/step	-	loss: 0.0465 - mse: 0.0465 - val_mse: 0.0465
	Epoch 829/1000	loss: 0.0844 - val_mse: 0.0844	-	0s 3ms/step	-	loss: 0.1245 - mse: 0.1245 - val_mse: 0.1245
	Epoch 830/1000	loss: 0.0847 - val_mse: 0.0847	-	0s 3ms/step	-	loss: 0.1194 - mse: 0.1194 - val_mse: 0.1194
	Epoch 831/1000	loss: 0.0839 - val_mse: 0.0839	-	0s 2ms/step	-	loss: 0.0958 - mse: 0.0958 - val_mse: 0.0958
	Epoch 832/1000	loss: 0.0810 - val_mse: 0.0810	-	0s 2ms/step	-	loss: 0.0877 - mse: 0.0877 - val_mse: 0.0877
	Epoch 833/1000	loss: 0.0801 - val_mse: 0.0801	-	0s 2ms/step	-	loss: 0.0630 - mse: 0.0630 - val_mse: 0.0630
	Epoch 834/1000	loss: 0.0773 - val_mse: 0.0773	-	0s 3ms/step	-	loss: 0.1868 - mse: 0.1868 - val_mse: 0.1868
	Epoch 835/1000	loss: 0.0796 - val_mse: 0.0796	-	0s 3ms/step	-	loss: 0.0793 - mse: 0.0793 - val_mse: 0.0793
	Epoch 836/1000	loss: 0.0798 - val_mse: 0.0798	-	0s 2ms/step	-	loss: 0.0508 - mse: 0.0508 - val_mse: 0.0508
	Epoch 837/1000	loss: 0.0799 - val_mse: 0.0799	-	0s 3ms/step	-	loss: 0.0507 - mse: 0.0507 - val_mse: 0.0507
	Epoch 838/1000	loss: 0.0814 - val_mse: 0.0814	-	0s 2ms/step	-	loss: 0.0768 - mse: 0.0768 - val_mse: 0.0768
	Epoch 839/1000	loss: 0.0827 - val_mse: 0.0827	-	0s 3ms/step	-	loss: 0.0652 - mse: 0.0652 - val_mse: 0.0652
	Epoch 840/1000	loss: 0.0828 - val_mse: 0.0828	-	0s 3ms/step	-	loss: 0.0618 - mse: 0.0618 - val_mse: 0.0618
	Epoch 841/1000	loss: 0.0816 - val_mse: 0.0816	-	0s 2ms/step	-	loss: 0.2125 - mse: 0.2125 - val_mse: 0.2125
	Epoch 842/1000	loss: 0.0785 - val_mse: 0.0785	-	0s 3ms/step	-	loss: 0.0790 - mse: 0.0790 - val_mse: 0.0790
	Epoch 843/1000	loss: 0.0781 - val_mse: 0.0781	-	0s 2ms/step	-	loss: 0.0555 - mse: 0.0555 - val_mse: 0.0555
	Epoch 844/1000	loss: 0.0775 - val_mse: 0.0775	-	0s 3ms/step	-	loss: 0.0571 - mse: 0.0571 - val_mse: 0.0571
	Epoch 845/1000	loss: 0.0768 - val_mse: 0.0768	-	0s 3ms/step	-	loss: 0.0886 - mse: 0.0886 - val_mse: 0.0886
	Epoch 846/1000	loss: 0.0786 - val_mse: 0.0786	-	0s 3ms/step	-	loss: 0.1234 - mse: 0.1234 - val_mse: 0.1234
	Epoch 847/1000	loss: 0.0796 - val_mse: 0.0796	-	0s 2ms/step	-	loss: 0.1021 - mse: 0.1021 - val_mse: 0.1021
	Epoch 848/1000	loss: 0.0790 - val_mse: 0.0790	-	0s 3ms/step	-	loss: 0.0557 - mse: 0.0557 - val_mse: 0.0557
	Epoch 849/1000	loss: 0.0764 - val_mse: 0.0764	-	0s 3ms/step	-	loss: 0.0532 - mse: 0.0532 - val_mse: 0.0532
	Epoch 850/1000	loss: 0.0755 - val_mse: 0.0755	-	ETA: 0s - loss: 0.0268 - mse: 0.0268 - val_mse: 0.0268	-	loss: 0.0752 - val_mse: 0.0752
	Epoch 851/1000	loss: 0.0758 - val_mse: 0.0758	-	0s 3ms/step	-	loss: 0.0780 - mse: 0.0780 - val_mse: 0.0780
	Epoch 852/1000	loss: 0.0770 - val_mse: 0.0770	-	0s 3ms/step	-	loss: 0.0545 - mse: 0.0545 - val_mse: 0.0545
	Epoch 853/1000	loss: 0.0778 - val_mse: 0.0778	-	ETA: 0s - loss: 0.0106 - mse: 0.0106 - val_mse: 0.0106	-	loss: 0.0772 - val_mse: 0.0772
	Epoch 854/1000	loss: 0.0780 - val_mse: 0.0780	-	0s 2ms/step	-	loss: 0.0864 - mse: 0.0864 - val_mse: 0.0864
	Epoch 855/1000	loss: 0.0778 - val_mse: 0.0778	-	0s 3ms/step	-	loss: 0.1178 - mse: 0.1178 - val_mse: 0.1178
	Epoch 856/1000	loss: 0.0775 - val_mse: 0.0775	-	0s 3ms/step	-	loss: 0.0790 - mse: 0.0790 - val_mse: 0.0790
	Epoch 857/1000	loss: 0.0791 - val_mse: 0.0791	-	0s 2ms/step	-	loss: 0.0789 - mse: 0.0789 - val_mse: 0.0789
	Epoch 858/1000	loss: 0.0812 - val_mse: 0.0812	-	0s 3ms/step	-	loss: 0.0550 - mse: 0.0550 - val_mse: 0.0550
	Epoch 859/1000	loss: 0.0820 - val_mse: 0.0820	-	0s 3ms/step	-	loss: 0.0787 - mse: 0.0787 - val_mse: 0.0787
	Epoch 860/1000	loss: 0.0795 - val_mse: 0.0795	-	0s 2ms/step	-	loss: 0.0532 - mse: 0.0532 - val_mse: 0.0532
	Epoch 861/1000	loss: 0.0806 - val_mse: 0.0806	-	0s 2ms/step	-	loss: 0.0415 - mse: 0.0415 - val_mse: 0.0415
	Epoch 862/1000	loss: 0.0787 - val_mse: 0.0787	-	0s 2ms/step	-	loss: 0.0835 - mse: 0.0835 - val_mse: 0.0835
	Epoch 863/1000	loss: 0.0781 - val_mse: 0.0781	-	0s 2ms/step	-	loss: 0.0601 - mse: 0.0601 - val_mse: 0.0601
	Epoch 864/1000	loss: 0.0788 - val_mse: 0.0788	-	0s 2ms/step	-	loss: 0.1158 - mse: 0.1158 - val_mse: 0.1158
	Epoch 865/1000	loss: 0.0802 - val_mse: 0.0802	-	0s 2ms/step	-	loss: 0.1209 - mse: 0.1209 - val_mse: 0.1209
	Epoch 866/1000	loss: 0.0802 - val_mse: 0.0802	-	0s 2ms/step	-	loss: 0.0608 - mse: 0.0608 - val_mse: 0.0608
	Epoch 867/1000	loss: 0.0791 - val_mse: 0.0791	-	0s 2ms/step	-	loss: 0.0484 - mse: 0.0484 - val_mse: 0.0484
	Epoch 868/1000	loss: 0.0775 - val_mse: 0.0775	-	0s 2ms/step	-	loss: 0.0628 - mse: 0.0628 - val_mse: 0.0628
	Epoch 869/1000	loss: 0.0784 - val_mse: 0.0784	-	0s 3ms/step	-	loss: 0.1295 - mse: 0.1295 - val_mse: 0.1295
	Epoch 870/1000	loss: 0.0802 - val_mse: 0.0802	-	0s 2ms/step	-	loss: 0.0395 - mse: 0.0395 - val_mse: 0.0395
	Epoch 871/1000	loss: 0.0821 - val_mse: 0.0821	-	0s 2ms/step	-	loss: 0.0829 - mse: 0.0829 - val_mse: 0.0829
	Epoch 872/1000	loss: 0.0778 - val_mse: 0.0778	-	0s 2ms/step	-	loss: 0.1599 - mse: 0.1599 - val_mse: 0.1599
	Epoch 873/1000	loss: 0.0778 - val_mse: 0.0778	-	0s 3ms/step	-	loss: 0.0649 - mse: 0.0649 - val_mse: 0.0649
	Epoch 874/1000	loss: 0.0792 - val_mse: 0.0792	-	0s 3ms/step	-	loss: 0.0508 - mse: 0.0508 - val_mse: 0.0508
	Epoch 875/1000	loss: 0.0792 - val_mse: 0.0792	-	0s 3ms/step	-	loss: 0.0900 - mse: 0.0900 - val_mse: 0.0900
	Epoch 876/1000	loss: 0.0757 - val_mse: 0.0757	-	0s 3ms/step	-	loss: 0.0724 - mse: 0.0724 - val_mse: 0.0724
	Epoch 877/1000	loss: 0.0728 - val_mse: 0.0728	-	0s 3ms/step	-	loss: 0.1321 - mse: 0.1321 - val_mse: 0.1321
	Epoch 878/1000	loss: 0.0748 - val_mse: 0.0748	-	0s 3ms/step	-	loss: 0.0451 - mse: 0.0451 - val_mse: 0.0451
	Epoch 879/1000	loss: 0.0797 - val_mse: 0.0797	-	ETA: 0s - loss: 0.0991 - mse: 0.0991 - val_mse: 0.0991	-	loss: 0.0753 - val_mse: 0.0753
	Epoch 880/1000	loss: 0.0737 - val_mse: 0.0737	-	0s 3ms/step	-	loss: 0.1585 - mse: 0.1585 - val_mse: 0.1585
	Epoch 881/1000	loss: 0.0739 - val_mse: 0.0739	-	0s 2ms/step	-	loss: 0.0960 - mse: 0.0960 - val_mse: 0.0960
	Epoch 882/1000	loss: 0.0755 - val_mse: 0.0755	-	0s 2ms/step	-	loss: 0.0894 - mse: 0.0894 - val_mse: 0.0894
	Epoch 883/1000	loss: 0.0766 - val_mse: 0.0766	-	0s 3ms/step	-	loss: 0.1208 - mse: 0.1208 - val_mse: 0.1208
	Epoch 884/1000	loss: 0.0750 - val_mse: 0.0750	-	0s 3ms/step	-	loss: 0.0764 - mse: 0.0764 - val_mse: 0.0764
	Epoch 885/1000	loss: 0.0743 - val_mse: 0.0743	-	0s 2ms/step	-	loss: 0.1057 - mse: 0.1057 - val_mse: 0.1057
	Epoch 886/1000	loss: 0.0727 - val_mse: 0.0727	-	0s 3ms/step	-	loss: 0.0748 - mse: 0.0748 - val_mse: 0.0748
	Epoch 887/1000	loss: 0.0722 - val_mse: 0.0722	-	0s 3ms/step	-	loss: 0.0823 - mse: 0.0823 - val_mse: 0.0823
	Epoch 888/1000	loss: 0.0736 - val_mse: 0.0736	-	0s 2ms/step	-	loss: 0.0876 - mse: 0.0876 - val_mse: 0.0876
	Epoch 889/1000	loss: 0.0768 - val_mse: 0.0768	-	0s 3ms/step	-	loss: 0.1231 - mse: 0.1231 - val_mse: 0.1231
	Epoch 890/1000	loss: 0.0771 - val_mse: 0.0771	-	0s 3ms/step	-	loss: 0.1169 - mse: 0.1169 - val_mse: 0.1169
	Epoch 891/1000	loss: 0.0751 - val_mse: 0.0751	-	0s 3ms/step	-	loss: 0.0574 - mse: 0.0574 - val_mse: 0.0574
	Epoch 892/1000	loss: 0.0740 - val_mse: 0.0740	-	0s 3ms/step	-	loss: 0.0720 - mse: 0.0720 - val_mse: 0.0720
	Epoch 893/1000	loss: 0.0751 - val_mse: 0.0751	-	0s 2ms/step	-	loss: 0.0704 - mse: 0.0704 - val_mse: 0.0704
	Epoch 894/1000	loss: 0.0766 - val_mse: 0.0766	-	0s 3ms/step	-	loss: 0.0486 - mse: 0.0486 - val_mse: 0.048