	Mean Average Error on 10 samples across various algorithms							
	<u>User Based Similarity</u>							
City				Algo	rithm - TF-	IDF		
Charlotte	0.40361322	0.4247391	0.297557	0.311847545	0.368525	0.421793	0.382852	0.384308
Pittsburgh	0.30971454	0.4094721	0.3961642	0.31555691	0.266891	0.242482	0.464577	0.343238
Scottsdale	0.35099046	0.5379218	0.3710859	0.409693834	0.591254	0.336283	0.346453	0.356932
C:	ı			A.I	NIN	45		
City	0.40564044	0.4004040	0.0004600		orithm - NN		0.000000	0.000007
Charlotte	0.40564841	0.4304049	0.3934629	0.308001431	0.383628		0.380293	
Pittsburgh	0.37266974	0.389814	0.3109651	0.331431696			0.3689	
Scottsdale	0.32826142	0.459682	0.4650315	0.337551995	0.505904	0.303088	0.443872	0.350394
City	Algorithm - Doc2Vec							
Charlotte	0.40361322	0.4247391	0.250635	0.464581092	0.261859	0.368961	0.382852	0.384308
Pittsburgh	0.40033775	0.3800848	0.5090837	0.250870527	0.306602	0.259266	0.349671	0.264831
Scottsdale	0.39062083	0.533884	0.5706222	0.3148384	0.624842	0.348362	0.425838	0.332684
City	Algorithm - Base Error							
Charlotte	0.40564841	0.4304049	0.3934629	0.308001431	0.383628		0.380293	0.390887
Pittsburgh	0.32821938	0.4462641	0.4012969	0.344200511	0.314088		0.510478	
Scottsdale	0.43507446	0.5379083	0.5326969	0.333532495	0.641249	0.34928	0.547621	0.436382
	<u>Item Based Similarity</u>							
C:to	<u> </u>			ΔΙα	arithma NN	<u> </u>		
City	0.33893721	0.2938712	0.3525679	0.324467005	orithm - NN 0.412722	0.394951	0.410487	0.200220
Charlotte Pittsburgh	0.33893721	0.2938712	0.3323679	0.324467005		0.394951	0.410487	0.369336
Scottsdale	ļ — I	0.271349	0.2323047	0.335960213		0.322827	0.272234	
Scottsdaic	0.55750105	0.5700011	0.3233300	0.555500215	0.571005	0.550717	0.570002	0.552515
City	Algorithm - TF-IDF							
Charlotte	0.32785281	0.3770922	0.399168	0.403591956	0.391123	0.335762	0.31477	0.369336
Pittsburgh	0.23296465	0.2495024	0.2753296	0.322827056	0.264321	0.315494	0.27429	0.214321
Scottsdale	0.29576759	0.3359602	0.3293566	0.324522097	0.349238	0.336717	0.360924	0.340435
C:t-	Ι			Algor	ithm Doo	N/0.5		
City	0.44769605	0.4020015	0.2775714		ithm - Doc2		0.22652	0 227707
Charlotte	0.44768695	0.4036615	0.3775711	0.377435598	0.342965		0.33653	
Pittsburgh Scottsdale	0.33311937 0.35439399	0.2884245	0.321665 0.3602442	0.320221331	0.325869 0.347617	0.317137 0.377538	0.31222 0.378538	0.325753 0.459053
Scottsdale	0.55459399	0.4076398	0.5002442	0.382359003	0.54/61/	0.577538	0.5/8538	0.459053
City				Algorit	thm - Base	Error		
Charlotte	0.33893721	0.2938712	0.3525679	0.324467005	0.412722		0.410487	0.369336
·								

0.2329647

0.3293566

0.3225996

0.27533 0.322827

0.272254

0.264321

0.332315

0.271549

0.3706811

Pittsburgh

0.24950238

Scottsdale 0.39796189

Charlotte	1.0803627	1.0954316	1.081521	1.097892358	1.077224	1.082551	1.08817	1.079008
Pittsburgh	1.03356586	1.036523	1.036937	1.036936983	1.026224	1.026224	1.038291	1.038676
Scottsdale	1.09423465	1.0954962	1.1053203	1.086576636	1.097023	1.100458	1.103021	1.100617

	Number of points					
City	Tuoinina	Validation	Tastina	Sample Size		
	Training	Validation	Testing	(80% of Tesing		
Charlotte	23746	6136	11188	8951		
Pittsburgh	18570	5665	9226	7381		
Scottsdale	18387	3707	5371	4297		

0.316934	0.403965
0.366555	0.349266
0.350443	0.319199
	0.366555

0.345483	0.390997
0.426084	0.190239
0.322415	0.272653

0.324113	0.403965
0.253556	0.344295
0.325764	0.378348

0.345483	0.390997
	0.352662
0.334644	0.425367

0.341958	0.400924
0.271997	0.324203
0.35072	0.338788

0.394951	0.341958
0.281125	0.302135
0.350923	0.304324

0.330068	0.361763
0.328661	0.289624
0.374929	0.380013

0.341958	0.400924
0.271997	0.324203
0.35072	0.338788

1.081465	1.087179
1.037686	1.031738
1.082285	1.083035