9 cbwd_SE 2071	e.DataFrame'> , 0 to 2070 olumns): Null Count Dtype non-null int64 non-null float64 non-null int64 non-null int64 non-null int64						
0 season 824 1 DEWP 824 2 HUMI 824 3 PRES 824 4 TEMP 824	non-null int64 non-null int64 non-null float64 4(4) ro null values e.DataFrame'> 0 to 823						
7 cbwd_NE 824 8 cbwd_NW 824 9 cbwd_SE 824 10 PM_HIGH 824 dtypes: float64(7), int6 memory usage: 70.9 KB df_guangzhou.info() # zo <class #="" 'pandas.core.fram="" (total="" 0="" 1="" 11="" 1352="" 1352<="" 2="" 3="" c="" column="" columns="" data="" dewp="" entries="" humi="" non="" pres="" rangeindex:="" season="" td=""><td>e.DataFrame'> , 0 to 1351 olumns): Null Count Dtype non-null float64 non-null float64 non-null float64 non-null float64</td><td></td><td></td><td></td><td></td><td></td><td></td></class>	e.DataFrame'> , 0 to 1351 olumns): Null Count Dtype non-null float64 non-null float64 non-null float64 non-null float64						
5 Iws 1352 6 precipitation 1352 7 cbwd_NE 1352 8 cbwd_NW 1352 9 cbwd_SE 1352 10 PM_HIGH 1352 dtypes: float64(8), int6 memory usage: 116.3 KB df_shanghai.info() # ze <class #="" 'pandas.core.fram="" (total="" 0="" 11="" 1351="" 1351<="" c="" column="" columns="" data="" entries="" non="" rangeindex:="" season="" td=""><td>ro null values e.DataFrame'> , 0 to 1350</td><td></td><td></td><td></td><td></td><td></td><td></td></class>	ro null values e.DataFrame'> , 0 to 1350						
2 HUMI 1351 3 PRES 1351 4 TEMP 1351 5 Iws 1351 6 precipitation 1351 7 cbwd_NE 1351 8 cbwd_NW 1351 9 cbwd_SE 1351	non-null float64 non-null float64 non-null float64 non-null float64 non-null float64 non-null int64 non-null int64 non-null int64 4 (4) ES TEMP Iws precipitation cbwd_I	NE cbwd_NW cbwd_SE PM_I 0 0 1	HIGH 1.0				
4 4 -24.0 30.0 1034 df_beijing.describe()	0.0 -11.0 117.55 0.0 0.0 -12.0 39.35 0.0 0.0 -10.0 59.00 0.0 OP HUMI PRES TEM 00 2071.000000 2071.000000 2071.0000 035 41.121197 1016.711733 16.2206 07 22.833175 10.255643 11.6881	2071.000000 2071.000000 2066 21.499034 0.046548 41 47.630452 0.495941	0.0 0.0 0.0 0.0 0.0 cbwd_NE cbwd_NW 2071.000000 2071.000000 0.113955 0.306132 0.317833 0.460997	2071.000000 2071.0000 0.315789 0.3133 0.464942 0.4639	00 75 78		
25% 1.000000 -11.00000 50% 2.000000 1.00000 75% 3.500000 15.00000 max 4.000000 27.00000 df_beijing.shape (2071, 11)	20 22.000000 1008.00000 5.0000 37.000000 1016.000000 18.0000 57.000000 1025.000000 27.0000	1.790000 0.000000 1.790000 0.0000000 1.790000 0.0000000 1.79000 0.0000000 1.79000 0.0000000 1.79000 0.0000000 1.79000 0.000000 1.79000 0.000000 1.79000 0.000000 1.79000 0.000000 1.79000 0.00000 1.79000 0.0000 1.79000 0.00000 1.79000 0.00000 1.79000 0.0000 1.79000 0.00000	0.000000 0.000000 0.000000 0.000000 0.000000 1.000000 1.000000 1.000000	0.000000 0.0000 0.000000 0.0000 1.000000 1.0000	00 00 00		
<pre>import plotly.express as fig = px.scatter_matrix fig.update_layout(width=1200, height=1200) fig.show()</pre> Beijing	s px (df_beijing,color = 'PM_HIGH',	title="Beijing")				PM_HIGH	
20 AM 0 0 -20 -40 100 1040 SH 1020 1000						0.8	
40 20 10 10 10 10 10 10 10 10 10 10 10 10 10						0.6	
1 0.5 0.5 0 1 0.5 0.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						0.2	
<pre>import plotly.express as</pre>	DEWP DEWP PRES s px (df_shenyang, color = 'PM_HIGH',	0 20 40 0 200 400 TEMP lws	0 5 10 15 0 0.5 precipitation cbwd_l	1 0 0.5 1 0 NE cbwd_NW c	0.5 1 0 0.5 1 pwd_SE PM_HIGH		
Shenyang A OSB OSB OSB OSB OSB OSB OSB						PM_HIGH	
100 IWN 50 1040 SH 1020 1000 4 20						0.8	
200 cbwd_NE precipitation lws 0.5 0 0.5 0						0.4	
1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5						0.2	
Season Creating Class Implementation: 1. Calculate the distance betwood 2. Sort the distances and pickons. 3. Find the labels for these k	DEWP HUMI PRES And required funct ween a test point and every point in the cathe k nearest distances from the list. To nearest neighbors and the most common accounting of a largest.	ions for KNN m training set. We are considering these k nearest distances corre	ng Euclidean distance her espond to the k nearest no	e. eighbors to the test point	0.5 1 0 0.5 1 pwd_SE PM_HIGH .		
<pre>class KNNC: definit(self, self.k = k self.dist_metric</pre>	<pre>tween test point & data ta): um((point - data)**2, axis=1)) k, dist_metric=euclidean): c = dist_metric</pre>						
y_sorted = neighbors.ap return list(map def evaluate(self, y pred = self.p accuracy = sum(y	<pre>X_train y_train _test): : self.dist_metric(x, self.X_tra: [y for _, y in sorted(zip(distain) ppend(y_sorted[:self.k]) (most_common, neighbors)) X_test, y_test):</pre>						
<pre>return accuracy Creating datfra X_beijing = df_beijing.: y_beijing = df_beijing.: X_shenyang = df_shenyang y_shenyang = df_shenyang # X_beijing.head() # y_beijing.head()</pre>	iloc[:,-1] g.iloc[:, :10]	model					
<pre># X_shenyang.head() # y_shenyang.head() # X_beijing.shape Splitting the da X_beijing_train, X_beijing_train, X_shenyang_train, X_sh</pre>	tasets into train and ing_validation, y_beijing_train, nyang_validation, y_shenyang_train, in and test sets for	, y_beijing_validation = ain, y_shenyang_validatio	train_test_split(X				
<pre># Training X_beijing_shenyang_train y_beijing_shenyang_train # X_beijing_shenyang_train # Test X_beijing_shenyang_valin</pre>		X_shenyang_train],ignorey_shenyang_train],ignore					
# preprocessing (scalin		alidation, y_shenyang_val	lidation],ignore_inde	= False) ex = True, sort = Fa			
<pre>X_beijing_shenyang_train X_beijing_shenyang_valid # X_beijing_shenyang_train # X_beijing_shenyang_val # X_beijing_shenyang_train # X_beijing_shenyang_val # X_beijing</pre>	dation = pd.concat([y_beijing_value ng the training) n = preprocessing.StandardScale dation = preprocessing.StandardS ain.shape lidation.shape ain[0:5]	alidation, y_shenyang_vai	lidation],ignore_inde	= False) ex = True, sort = Fa ex = True, sort = Fa			
<pre>X_beijing_shenyang_train X_beijing_shenyang_train # X_beijing_shenyang_train # X_beijing_shenyang_train # X_beijing_shenyang_train # X_beijing_shenyang_train # X_beijing_shenyang_val Checking the tr train_accuracy_1 = [] ks = range(1, 11) for k in ks: knn = KNNC(k=k) knn.fit(X_beijing_shaccuracy = knn.evaluation_accuracy_1.app # print(train_accuracy_2.app # print('Training Accuracy_2.app result_training = np.ave print('Training Accuracy_2.app Training Accuracy_2.app # Checking the tr train_accuracy_2 = [] ks = range(1, 11)</pre>	dation = pd.concat([y_beijing_value] In g the training) In = preprocessing.StandardScale Idation = preprocessing.StandardScale Idation.shape Idation.shape Idation[0:5] Idation[0:5] Idation[0:5] Idation[0:5] Idation[o:5] Idat	alidation, y_shenyang_value r().fit_transform(X_beij: Scaler().fit_transform(X_ ng_train) y_beijing_shenyang_train;	ing_shenyang_train) _beijing_shenyang_vai ation	= False) ex = True, sort = Fa ex = True, sort = Fa			
<pre>X_beijing_shenyang_train X_beijing_shenyang_valid # X_beijing_shenyang_train # X_beijing_shenyang_val # X_beijing_shenyang_val # X_beijing_shenyang_val # X_beijing_shenyang_val Checking the tr train_accuracy_1 = [] ks = range(1, 11) for k in ks: knn = KNNC(k=k) knn.fit(X_beijing_slaccuracy = knn.evall train_accuracy_1.ap # print(train_accuracy_2.ap # print('Training Accuracy Training Accuracy 0.8517 Checking the tr train_accuracy_2 = [] ks = range(1, 11) for k in ks: knnmodel = KNeighbook knnmodel.fit(X_beijing) scikit_result_training train_accuracy_2.ap # print(train_accuracy_2.ap # print(train_accuracy_2.ap # print(train_accuracy_2.ap # print("Training Accuracy_2.ap # print("Training Accuracy_3.ap # print("Training Accuracy_3.ap # print(train_accuracy_3.ap # prin</pre>	dation = pd.concat([y_beijing_value of the training) n = preprocessing.StandardScaled dation = preprocessing.StandardScaled dation.shape lidation.shape lidation[0:5] raining accuracy of menyang_train, y_beijing_shenyang_train, y_beijing_shenyang_train, y_beijing_shend(accuracy) perage(train_accuracy_1) perage(train_accuracy_1) presclassifier(n_neighbors = k) ing_shenyang_train, y_beijing_sleing = konmodel.score(x_beijing_sleing = konmodel.score(x_beijing_sleing = konmodel.score(x_beijing_sleing = konmodel.score(x_beijing_sleing) perage(train_accuracy_1) presclassifier(n_neighbors = k) ing_shenyang_train, y_beijing_sleing = konmodel.score(x_beijing_sleing = konmodel.score(x_beijing_sleing) perage(train_accuracy_1) presclassifier(n_neighbors = k) ing_shenyang_train, y_beijing_sleing = konmodel.score(x_beijing_sleing) perage(train_accuracy_1) presclassifier(n_neighbors = k) ing_shenyang_train, y_beijing_sleing = konmodel.score(x_beijing_sleing) perage(train_accuracy_1) presclassifier(n_neighbors = k) ing_shenyang_train, y_beijing_sleing = konmodel.score(x_beijing_sleing) presclassifier(n_neighbors = k) ing_shenyang_train, y_beijing_sleing = konmodel.score(x_beijing_sleing) presclassifier(n_neighbors = k) ing_shenyang_train, y_beijing_sleing = k)	alidation, y_shenyang_value r().fit_transform(X_beij: Scaler().fit_transform(X_ our implement ng_train) y_beijing_shenyang_train; shenyang_train) shenyang_train, y_beijing ng)	ing_shenyang_train) _beijing_shenyang_vai ation g_shenyang_train)	= False) ex = True, sort = Fa ex = True, sort = Fa			
X_beijing_shenyang_train X_beijing_shenyang_valid # X_beijing_shenyang_train # X_beijing_shenyang_valid # X_beijing_shenyang_val	dation = pd.concat([y_beijing_value pd.concat([y_beijing_value pd.concat([y_beijing_value pd.concat([y_beijing_value preprocessing.StandardScaled pd.concat(station = preprocessing.StandardScaled pd.concat(station_shape pd.concat(station_s	alidation, y_shenyang_vair r().fit_transform(X_beij: Scaler().fit_transform(X_beij: Scaler().fit_transform(X_beij: ng_train) y_beijing_shenyang_train; shenyang_train, y_beijing ng) of our impleme ng_train) ion, y_beijing_shenyang_vair 1034, 0.7775862068965518	ation ation beijing_shenyang_train) beijing_shenyang_value n library entation validation) validation)	= False) ex = True, sort = Fa ex = True, sort = Fa lidation)	lse)	206896, 0.779310344	8275862, 0.7879
X_beijing_shenyang_train X_beijing_shenyang_valid # X_beijing_shenyang_tr # X_beijing_shenyang_va. # X_beijing_shenyang_va. # X_beijing_shenyang_va. # X_beijing_shenyang_va. # X_beijing_shenyang_va. Checking the tr train_accuracy_1 = [] ks = range(1, 11) for k in ks: knn = KNNC(k=k) knn.fit(X_beijing_sl accuracy = knn.evalue train_accuracy_1.app # print(train_accuracy_2. result_training = np.ave print('Training Accuracy_2. Training Accuracy 0.8517 Checking the tr train_accuracy_2 = [] ks = range(1, 11) for k in ks: knnmodel = KNeighboo knnmodel.fit(X_beij) scikit_result_train train_accuracy_2.app # print(train_accuracy_2.app # print(validation_accuracy_2.app # print(validation_accuracy_2.app # print('Validation_accuracy_2.app # print('Validation_accur	dation = pd.concat([y_beijing_variation] In = preprocessing.StandardScale and station = preprocessing.StandardScale and station = preprocessing.StandardScale and station.shape and [0:5] Italiation.shape and [0:5] Italiation[0:5] Italiation[our implement our Scikit learn benyang_train) shenyang_train, shenyang_train, shenyang_train, y_beijing_shenyang_vain of our impleme of our impleme of our impleme of our scikit learn benyang_train, y_beijing_shenyang_vain of our Scikit learn chenyang_train) cof our Scikit learn of our scikit learn	ation ation ation plibrary g_shenyang_train) ation on library ation ontation validation) ontation validation ontation ontat	= False) ex = True, sort = Falsex = True, sort = T	e, 0.8, 0.7844827586		
X_beijing_shenyang_trainx_beijing_shenyang_valid # X_beijing_shenyang_valid # X_beijing_shenyang_valid # X_beijing_shenyang_valid # X_beijing_shenyang_valid # X_beijing_shenyang_valid # X_beijing_shenyang_valid Checking the train_accuracy_1 = [] ks = range(1, 11) for k in ks: knn = KNNC(k=k) knn.fit(X_beijing_slaccuracy = knn.evalid train_accuracy_1.ap; # print(train_accuracy_2 = [] ks = range(1, 11) for k in ks: knnmodel = KNeighbood knn = KNNC(k=k) knn fit(X_beijing_slaccuracy_print("Training Accuracy_print("Training Accuracy_print(validation_acc	dation = pd.concat([y_beijing_vi ng the training) n = preprocessing.StandardScale dation = preprocessing.StandardScale dation = preprocessing.StandardScale dation = preprocessing.StandardScale dation.shape lidation.shape lidation.shape lidation[0:5] raining accuracy of reage(train_accuracy_1) y', result_training) presclassifier(n_neighbors = k) ing_shenyang_train, y_beijing_sl ing = knnmodel.score(X_beijing_sl ing = knnmodel.score(X_beijin	alidation, y_shenyang_vain alidation, y_shenyang_vain for it_transform(X_beij: Scaler().fit_transform(X_scaler().fit_tran	ation ation ation ation on library chaing_shenyang_train) ontation chaindation) arn library cheijing_shenyang_vai arn library arn library arn library arn library arn library	= False) ex = True, sort = Falsex = True, sort = T	e, 0.8, 0.7844827586	206896, 0.779310344	8275862, 0.7879
X_beijing_shenyang_trainx_beijing_shenyang_valid # X_beijing_shenyang_valid # X_beij	dation = pd.concat([y_beijing_vi ng the training) n = preprocessing.StandardScalet dation = preprocessing.StandardScalet dation = preprocessing.StandardScalet dation = preprocessing.StandardScalet dation.shape lidation.shape ain[0:5] lidation[0:5] raining accuracy of resclassifier(n_neighbors = k) ling_shenyang_train, y_beijing_slenyang_train, y_beij	alidation, y_shenyang_vain().fit_transform(X_beij:Scaler().fit_transform(X_Scaler().fit_transfor	ation ation ation ation on library chaing_shenyang_train) ontation chaindation) arn library cheijing_shenyang_vai arn library arn library arn library arn library arn library	= False) ex = True, sort = False ex = True, sort = False lidation) lidation) 1. 0.7862068965517242 arn	e, 0.8, 0.7844827586	206896, 0.779310344	8275862, 0.78793
x_beijing_shenyang_trix x_beijing_trix x_beijing_trix x_beijing_trix x_beijing_trix x_beijing_trix x_b	dation = pd.concat([y_beijing_vi ng the training) n = preprocessing.StandardScaled dation = preprocessing.StandardS dation = preprocessing.StandardS dation.shape lidation.shape lidation.shape lidation[e:5] dation[e:5] dation[e:5] dation[e:5] dation[e:5] dation[accuracy of reclassifier(n_neighbors = k) ling_shenyang_train, y_beijing_shenyang_train, y_beijing_shenyang_train, y_beijing_shend(scikit_result_training) end(scikit_result_training) end(scikit_result_validation) end(s	our implement our implement our Scikit learn our Scikit learn henyang_train) y_beijing_shenyang_train; of our impleme ng_train) y_beijing_shenyang_validation, y_ ion) of our Scikit learn henyang_train) g_shenyang_validation, y_ ion) dation) ngation) ngation) dation) ngation) corrected Accurace Accur	ation ation ation hibrary ation on library ation on library and scikit le and scikit le of neighbors(k)	= False) ex = True, sort = False ex = True, sort = False lidation) 1. 0.7862068965517242 arn ataset)	e, 0.8, 0.7844827586	206896, 0.779310344	8275862, 0.78793
x_beijing_shenyang_traix_beijing_shenyang_valid_shenyang_traix_beijing_traix_beijing_shenyang_traix_beijing_traix_beijing_shenyang_traix_beijing_traix_beijing_traix_beijing_traix_beijing_traix_beijing_traix_beijing_traix_beijing_traix_beijing_traix_beijing_traix_beijing_traix_beijing_traix_beijing_traix_beijing_traix_be	dation = pd.concat([y_beijing_vi ng the training) n = preprocessing.StandardScaled dation = preprocessing.StandardScaled dation = preprocessing.StandardScaled dation.shape lidation.shape lidation.shape lidation[e:5] lidation[e:5] lidation[e:5] raining accuracy of reclassifier(n_neighbors = k) ling_shenyang_train, y_beijing_shenyang_train, y_beijing_shenyang_train, y_beijing_shenyang_shenyang_train, y_beijing_shenyang_scikit_result_training energy (scikit_result_training) energy (scikit_result_training) energy (scikit_result_training) energy (scikit_result_dation) average(validation_accuracy_1) acy', result_validation) average(validation_accuracy_1) acy', result_validation) average(validation_accuracy_1) acy', result_validation) 29310344827585 alidation accuracy_1 acy', result_validation 29310344827586 accuracy for our in ents a go num=10, dtype=int) text="Number of neighbors(k)") text="Accuracy_to result_validation_sult_in_append(scikit_resul	alidation, y_shenyang_vaingle alidation, y_shenyang_vaingle alidation, y_shenyang_vaingle alidation and alidation, y_beijing_shenyang_vaingle alidation, y_beijing_shenyang_vaing_vaingle alidation, y_beijing_shenyang_vaing_vaingle alidation, y_beijing_shenyang_vaing_va	ation arn library beijing_shenyang_va: arn library arn library beijing_shenyang_va: and scikit le	= False) ex = True, sort = False ex = True, sort = True, sort = False ex = True, sort = Tru	e, 0.8, 0.7844827586	206896, 0.779310344	own implement scikit learn mod
X beijing_shenyang_traix_beijing_shenyang_valid_ing_shenyang_traix_beijing_shenyang_traix_beijing_shenyang_traix_beijing_shenyang_traix_beijing_shenyang_valid_ing_sh	dation = pd.concat([y_beijing_vi ng the training) n = preprocessing.StandardScale lation = preprocessing.StandardS ain.shape lidation.shape lidation.shape lidation[e:5] raining accuracy of menyang_train, y_beijing_shenyan late(X_beijing_shenyang_train, y_beijing_shenyan late(X_beijing_shenyang_train, y_beijing_shenyang_train, y_beijing_shenyang_tra	alidation, y_shenyang_vaint r().fit_transform(X_beijing_scaler().fit_transform(X_scaler().fit	ation arn library beijing_shenyang_vai arn library arn library beijing_shenyang_vai arn library arn library beijing_shenyang_vai and scikit le ')) by vs k (for training data and scikit le ')) by vs k (for training data and scikit le ')) by vs k (for training data and scikit le	= False) ex = True, sort = False ex = True, sort = True, sort = False ex = True, sort = Tru	e, 0.8, 0.7844827586	206896, 0.779310344	
X beijing_shenyang_trait Y beijing_shenyang_tr	the training) The training) The perprocessing standardscale dation = preprocessing standards dation = preprocessing standards dation = preprocessing standards dation = preprocessing standards dation shape lidation accuracy of seclassifier (n_neighbors = k) lidation accuracy of seclassifier (n_neighbors = k) ling shenyang_train, y_beijing_shenyang_train, y_beijing_train, y_beijing_trai	alidation, y_shenyang_va: r().fit_transform(X_beij): Scaler().fit_transform(X_Scaler().fit_tran	ation arn library beijing_shenyang_val and scikit le and scikit le ation')) by vs k (for training dal ation'))	= False) ex = True, sort = False ex = True, sort = False lidation) 1.1dation) 1.1dation) 1.2dation) 2.2darn 2.3darn 2.4darn 3.4daset) 2.4daset)	e, 0.8, 0.7844827586	206896, 0.779310344	own implement scikit learn mod
X beijing_shenyang_traix Y beijing_shenyang_tr	pation = pd.concat([y_beljing_ving the training.) path training. path	alidation, y_shenyang_vair().fit_transform(x_beij:Scaler().fit_tra	ation hilbrary ation hilbrary ation hilbrary ation hilbrary arn library beijing_shenyang_vai arn library arn library beijing_shenyang_vai arn library beijing_shenyang_vai and scikit le of neighbors(k) and scikit arn and scikit	= False) ex = True, sort = False ex = True, sort = False lidation) 1. (0.7862068965517242 arn extaset) ataset) ataset) ataset)	e, o.8, o.7844827586	206896, 0.779310344	as own implement scikit learn modes own implement scikit learn modes scikit learn modes own implement as scikit learn
X_beijing_sheryang_raix X_beijing_sheryang_valing_sheryang	dation e pd.concat(p.beljing.vi procession of the procession of the policy of the pol	alidation, y_shenyang_vaints r()_fit_transform(X_beij: scaler()_fit_transform(X_beij: scaler	ation ing_shenyang_train) _beijing_shenyang_va: ation inlibrary ation inlibrary ation on library and library beijing_shenyang_va: and scikit le 'i)) cy vs k (for training date) of neighbors(k) on and scikit ation')) cy vs k (for training date) of neighbors(k) on and scikit ation')) cy vs k (for training date) of neighbors(k) on and scikit	= False) ex = True, sort = False ex = True, sort = False lidation) 1. (0.7862068965517242 arn extaset) ataset) ataset) ataset)	e, o.8, o.7844827586	206896, 0.779310344	as own implement scikit learn modes own implement scikit learn modes scikit learn modes own implement as scikit learn
X_beijing_shenyang_raix_ X_beijing_shenyang_valing_shenyang_raix_ X_beijing_shenyang_raix_ X_b	deliane pd.concar(_beljing_wing_concared) for the training of the processing standardscaler of the	and dataset)',	ation library gshenyang_train) heijing_shenyang_va: ation library gshenyang_train) entation validation) , 0.7741379310344828 and scikit le (')) by vs k (for training data) of neighbors(k) on and scikit ation')) by vs k (for training data) of neighbors(k) on and scikit ation')) cy vs k (for training data) ation')) cy vs k (for training data)	ex = True, sort = Fa ex = True, sort = Fa lidation) 0.7862068965517242 arn ataset) ataset) 1 1 1 1 1 1 1 1 1 1 1 1 1	., o.8, o.7844827586 , o.747781065088757	206896, 0.779310344	as own implement scikit learn modes own implement scikit learn modes scikit learn modes own implement as scikit learn
X_beijing_shenyang_raix X_beijing_shenyang_aning_raing_aning_a	dation = pd.concar(p.beljing_v. particle = pd.concar(p.sing_v.si	and dataset)', mame='own implementation ming dataset)', mame='own implementation and Shanghai	ation ation ation beijing_shenyang_valueling_she	= False) ex = True, sort = False idation) i	., o.8, o.7844827586 , o.747781065088757	206896, 0.779310344	as own implement scikit learn modes own implement scikit learn modes scikit learn modes own implement as scikit learn
Lest jing_sheenyang_rait_ Lest jing_sheenyang_rait_ X_beijing_sheenyang_rait_ Print(train_accuracy_2 i]	pation = pd.concat(y_beijing_vistors) pation = pd.concat	alidation, y_shenyang_validation, y_shenyang_validation, y_belijing_shenyang_train our implement our Scikit learn our Scikit learn our Scikit learn our Scikit learn benyang_train) our implement of our impleme ng_train) alon, y_beljing_shenyang_validation, y_beljing_shenyang_train ng] of our Scikit learn ng_train) alon, y_beljing_shenyang_validation, y_belj	ation in library ation in library ation in library ation in library and library beijing_shenyang_valuation ation in library	ataset) (Guamzhou ataset) (Guamzhou ataset) (Guamzhou ataset)	., o.8, o.7844827586 , o.747781065088757	206896, 0.779310344	own implement scikit learn mod
Lesijing.shenyang.raii Lesijing.shenyang.rai Lesijing.shenyang.vai # X. Beijing.shenyang.rai # Frain.accuracy.lai # print(Frain.accuracy.lai # print(Frain.accuracy.lai # Frain.accuracy.sel Checking the train.accuracy.gel # K. Beijing.shenyang.rai # K. Be	interior = pol-concet (y-beijing_vinetation = pol-concet (y-beijing_vinetation = pol-concet (y-beijing_vinetation) = pol-concet (y-beijing	alidation, y_shenyang_validation, y_shenyang_train, y_beijing_shenyang_train, y_beijing_of our implement of our Scikit learn our sci	ation ilibrary alidation ilibrary alidation intation intatio	### False) ### True, Sort = False) ### True, Sort = False) ### Alianton) ###	1. 6.8, 0.7844827586 1. 6.8, 0.7844827586	206896, 0.79310344	own implement scikit learn modes of the learn modes
Lessing shenyang_trait	intron = pd. concat(y_beai)ng_stery ps the reprocessing ps the r	our Scikit learn our Scikit l	ation in library g_shenyang_train) intation intation	### False) ### True, Sort = False) ### True, Sort = False) ### Alianton) ###	1. 6.8, 0.7844827586 1. 6.8, 0.7844827586	206896, 0.79310344	own implement scikit learn modes of the learn modes
plotting validation accuracy service from the control of the contr	station = pd.concat(y.beijng.wistation = pd.concat(y.beijng.wistation = pd.concat(y.beijng.wistation = preprocessing.) = per-percessing.) = preprocessing. StandardScale int in = preprocessing. StandardScale int int = preprocessing. StandardScale int	our Scikit learn our Scikit learn benyang_train) our Scikit learn benyang_train) phenyang_train, y_bestying of our implement of our implement of our implement of our Scikit learn our Scikit learn of our implement of our Scikit learn of our Scikit learn our y_bestying_shenyang_val to our Scikit learn to our scikit learn our scikit learn to our scikit learn our scikit learn to our	ation in library ation in library ation in library and scikit le and scikit le in library beijing_shenyang_val	ex = True, sort = Fa ex = True	1, 0.8, 0.7844827586	206896, 0.79310344	own implement scikit learn modes of the learn modes