MBTI Prediction with kNN

The Data

Name	Ne	Ni	Te	Ti	Se	Si	Fe	Fi	Туре
Kuuga	35.4	31	33	30	38	31	34	31	ENTP
Agito	26	31	33	30	26	33	30	24	INTJ
Ryuki	24.4	30.2	31	34	28	36	22	17	ISTJ
Blade	22.2	25.8	36	37	29	36	34	22	ENTJ
Hibiki	43.2	34	36	36	39	38	40	35	INTP
Kabuto	32.4	27	35	34	27	23	31	19	ENFP
Den-O	28.4	25.6	33	35	32	30	24	26	ESTP
Kiva	30.2	31.4	35	33	36	33	36	34	ENTJ
Decade	19.4	12	25	28	25	23	23	22	ESTJ
Fourze	33.4	38.6	29	29	26	37	24	25	INTJ
Gaim	30	29.6	34	32	38	28	33	22	ENTP
Ex-Aid	29	22.8	40	28	27	31	29	19	ENTJ
Zi-O	25.5	33	28	34	37	27	28	24	INFJ
Saber	29.8	26.4	28	36	29	30	33	28	INTJ
Revice	18.4	15	30	33	33	31	26	23	ESTJ

The Query

Name	Ne	Ni	Te	Ti	Se	Si	Fe	Fi	Туре
Kuuga	35.4	31	33	30	38	31	34	31	ENTP
Agito	26	31	33	30	26	33	30	24	INTJ
Ryuki	24.4	30.2	31	34	28	36	22	17	ISTJ
Blade	22.2	25.8	36	37	29	36	34	22	ENTJ
Hibiki	43.2	34	36	36	39	38	40	35	INTP
Kabuto	32.4	27	35	34	27	23	31	19	ENFP
Den-O	28.4	25.6	33	35	32	30	24	26	ESTP
Kiva	30.2	31.4	35	33	36	33	36	34	ENTJ
Decade	19.4	12	25	28	25	23	23	22	ESTJ
Fourze	33.4	38.6	29	29	26	37	24	25	INTJ
Gaim	30	29.6	34	32	38	28	33	22	ENTP
Ex-Aid	29	22.8	40	28	27	31	29	19	ENTJ
Zi-O	25.5	33	28	34	37	27	28	24	INFJ
Saber	29.8	26.4	28	36	29	30	33	28	INTJ
Revice	18.4	15	30	33	33	31	26	23	ESTJ

Query	32	32	27	36	29	31	28	23

The Distance

Name	Ne	Ni	Te	Ti	Se	Si	Fe	Fi	Туре	Distance
Kuuga	35.4	31	33	30	38	31	34	31	ENTP	16.29601
Agito	26	31	33	30	26	33	30	24	INTJ	11.26943
Ryuki	24.4	30.2	31	34	28	36	22	17	ISTJ	13.37909
Blade	22.2	25.8	36	37	29	36	34	22	ENTJ	16.68772
Hibiki	43.2	34	36	36	39	38	40	35	INTP	25.44484
Kabuto	32.4	27	35	34	27	23	31	19	ENFP	13.64405
Den-O	28.4	25.6	33	35	32	30	24	26	ESTP	11.22141
Kiva	30.2	31.4	35	33	36	33	36	34	ENTJ	17.73697
Decade	19.4	12	25	28	25	23	23	22	ESTJ	27.06954
Fourze	33.4	38.6	29	29	26	37	24	25	INTJ	12.78749
Gaim	30	29.6	34	32	38	28	33	22	ENTP	13.81159
Ex-Aid	29	22.8	40	28	27	31	29	19	ENTJ	18.64511
Zi-O	25.5	33	28	34	37	27	28	24	INFJ	11.36882
Saber	29.8	26.4	28	36	29	30	33	28	INTJ	9.391486
Revice	18.4	15	30	33	33	31	26	23	ESTJ	22.62653

	Query	32	32	27	36	29	31	28	23
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The 3 Nearest Neighbors

Name	Ne	Ni	Te	Ti	Se	Si	Fe	Fi	Туре	Distance
Kuuga	35.4	31	33	30	38	31	34	31	ENTP	16.29601
Agito	26	31	33	30	26	33	30	24	INTJ	11.26943
Ryuki	24.4	30.2	31	34	28	36	22	17	ISTJ	13.37909
Blade	22.2	25.8	36	37	29	36	34	22	ENTJ	16.68772
Hibiki	43.2	34	36	36	39	38	40	35	INTP	25.44484
Kabuto	32.4	27	35	34	27	23	31	19	ENFP	13.64405
Den-O	28.4	25.6	33	35	32	30	24	26	ESTP	11.22141
Kiva	30.2	31.4	35	33	36	33	36	34	ENTJ	17.73697
Decade	19.4	12	25	28	25	23	23	22	ESTJ	27.06954
Fourze	33.4	38.6	29	29	26	37	24	25	INTJ	12.78749
Gaim	30	29.6	34	32	38	28	33	22	ENTP	13.81159
Ex-Aid	29	22.8	40	28	27	31	29	19	ENTJ	18.64511
Zi-O	25.5	33	28	34	37	27	28	24	INFJ	11.36882
Saber	29.8	26.4	28	36	29	30	33	28	INTJ	9.391486
Revice	18.4	15	30	33	33	31	26	23	ESTJ	22.62653

Query	32	32	27	36	29	31	28	23
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The 1st Letter

Kuuga Agito	35.4	21				Si	Fe	Fi	Type	Distance
Agito		31	33	30	38	31	34	31	ENTP	16.29601
.8.00	26	31	33	30	26	33	30	24	INTJ	11.26943
Ryuki	24.4	30.2	31	34	28	36	22	17	ISTJ	13.37909
Blade	22.2	25.8	36	37	29	36	34	22	ENTJ	16.68772
Hibiki	43.2	34	36	36	39	38	40	35	INTP	25.44484
Kabuto	32.4	27	35	34	27	23	31	19	ENFP	13.64405
Den-O	28.4	25.6	33	35	32	30	24	26	ESTP	11.22141
Kiva	30.2	31.4	35	33	36	33	36	34	ENTJ	17.73697
Decade	19.4	12	25	28	25	23	23	22	ESTJ	27.06954
Fourze	33.4	38.6	29	29	26	37	24	25	INTJ	12.78749
Gaim	30	29.6	34	32	38	28	33	22	ENTP	13.81159
Ex-Aid	29	22.8	40	28	27	31	29	19	ENTJ	18.64511
Zi-O	25.5	33	28	34	37	27	28	24	INFJ	11.36882
Saber	29.8	26.4	28	36	29	30	33	28	INTJ	9.391486
Revice	18.4	15	30	33	33	31	26	23	ESTJ	22.62653





Two Is







	22	22	27	3.0	20	24	20	22
Ouerv	32	32	2/	36	29	31	28	23
et or or y	<u> </u>	<u> </u>						

The 2nd Letter

	Ne	Ni	Te	Ti	Se	Si	Fe	Fi	Туре	Distance
Kuuga	35.4	31	33	30	38	31	34	31	ENTP	16.29601
Agito	26	31	33	30	26	33	30	24	INTJ	11.26943
Ryuki	24.4	30.2	31	34	28	36	22	17	ISTJ	13.37909
Blade	22.2	25.8	36	37	29	36	34	22	ENTJ	16.68772
Hibiki	43.2	34	36	36	39	38	40	35	INTP	25.44484
Kabuto	32.4	27	35	34	27	23	31	19	ENFP	13.64405
Den-O	28.4	25.6	33	35	32	30	24	26	ESTP	11.22141
Kiva	30.2	31.4	35	33	36	33	36	34	ENTJ	17.73697
Decade	19.4	12	25	28	25	23	23	22	ESTJ	27.06954
Fourze	33.4	38.6	29	29	26	37	24	25	INTJ	12.78749
Gaim	30	29.6	34	32	38	28	33	22	ENTP	13.81159
Ex-Aid	29	22.8	40	28	27	31	29	19	ENTJ	18.64511
Zi-O	25.5	33	28	34	37	27	28	24	INFJ	11.36882
Saber	29.8	26.4	28	36	29	30	33	28	INTJ	9.391486
Revice	18.4	15	30	33	33	31	26	23	ESTJ	22.62653





Two Ns









The 3rd Letter

Name	Ne	Ni	Te	Ti	Se	Si	Fe	Fi	Туре	Distance
Kuuga	35.4	31	33	30	38	31	34	31	ENTP	16.29601
Agito	26	31	33	30	26	33	30	24	INTJ	11.26943
Ryuki	24.4	30.2	31	34	28	36	22	17	ISTJ	13.37909
Blade	22.2	25.8	36	37	29	36	34	22	ENTJ	16.68772
Hibiki	43.2	34	36	36	39	38	40	35	INTP	25.44484
Kabuto	32.4	27	35	34	27	23	31	19	ENFP	13.64405
Den-O	28.4	25.6	33	35	32	30	24	26	ESTP	11.22141
Kiva	30.2	31.4	35	33	36	33	36	34	ENTJ	17.73697
Decade	19.4	12	25	28	25	23	23	22	ESTJ	27.06954
Fourze	33.4	38.6	29	29	26	37	24	25	INTJ	12.78749
Gaim	30	29.6	34	32	38	28	33	22	ENTP	13.81159
Ex-Aid	29	22.8	40	28	27	31	29	19	ENTJ	18.64511
Zi-O	25.5	33	28	34	37	27	28	24	INFJ	11.36882
Saber	29.8	26.4	28	36	29	30	33	28	INTJ	9.391486
Revice	18.4	15	30	33	33	31	26	23	ESTJ	22.62653







Three Ts







The 4th Letter

Ne	Ni	Te	Ti	Se	Si	Fe	Fi	Туре	Distance
35.4	31	33	30	38	31	34	31	ENTP	16.29601
26	31	33	30	26	33	30	24	INTJ	11.26943
24.4	30.2	31	34	28	36	22	17	ISTJ	13.37909
22.2	25.8	36	37	29	36	34	22	ENTJ	16.68772
43.2	34	36	36	39	38	40	35	INTP	25.44484
32.4	27	35	34	27	23	31	19	ENFP	13.64405
28.4	25.6	33	35	32	30	24	26	ESTP	11.22141
30.2	31.4	35	33	36	33	36	34	ENTJ	17.73697
19.4	12	25	28	25	23	23	22	ESTJ	27.06954
33.4	38.6	29	29	26	37	24	25	INTJ	12.78749
30	29.6	34	32	38	28	33	22	ENTP	13.81159
29	22.8	40	28	27	31	29	19	ENTJ	18.64511
25.5	33	28	34	37	27	28	24	INFJ	11.36882
29.8	26.4	28	36	29	30	33	28	INTJ	9.391486
18.4	15	30	33	33	31	26	23	ESTJ	22.62653
	35.4 26 24.4 22.2 43.2 32.4 28.4 30.2 19.4 33.4 30 29 25.5 29.8	35.4 31 26 31 24.4 30.2 22.2 25.8 43.2 34 32.4 27 28.4 25.6 30.2 31.4 19.4 12 33.4 38.6 30 29.6 29 22.8 25.5 33 29.8 26.4	35.4 31 33 26 31 33 24.4 30.2 31 22.2 25.8 36 43.2 34 36 32.4 27 35 28.4 25.6 33 30.2 31.4 35 19.4 12 25 33.4 38.6 29 30 29.6 34 29 22.8 40 25.5 33 28 29.8 26.4 28	35.4 31 33 30 26 31 33 30 24.4 30.2 31 34 22.2 25.8 36 37 43.2 34 36 36 32.4 27 35 34 28.4 25.6 33 35 30.2 31.4 35 33 19.4 12 25 28 33.4 38.6 29 29 30 29.6 34 32 29 22.8 40 28 25.5 33 28 34 29.8 26.4 28 36	35.4 31 33 30 38 26 31 33 30 26 24.4 30.2 31 34 28 22.2 25.8 36 37 29 43.2 34 36 36 39 32.4 27 35 34 27 28.4 25.6 33 35 32 30.2 31.4 35 33 36 19.4 12 25 28 25 33.4 38.6 29 29 26 30 29.6 34 32 38 29 22.8 40 28 27 25.5 33 28 34 37 29.8 26.4 28 36 29	35.4 31 33 30 38 31 26 31 33 30 26 33 24.4 30.2 31 34 28 36 22.2 25.8 36 37 29 36 43.2 34 36 36 39 38 32.4 27 35 34 27 23 28.4 25.6 33 35 32 30 30.2 31.4 35 33 36 33 19.4 12 25 28 25 23 33.4 38.6 29 29 26 37 30 29.6 34 32 38 28 29 22.8 40 28 27 31 25.5 33 28 34 37 27 29.8 26.4 28 36 29 30	35.4 31 33 30 38 31 34 26 31 33 30 26 33 30 24.4 30.2 31 34 28 36 22 22.2 25.8 36 37 29 36 34 43.2 34 36 36 39 38 40 32.4 27 35 34 27 23 31 28.4 25.6 33 35 32 30 24 30.2 31.4 35 33 36 33 36 19.4 12 25 28 25 23 23 33.4 38.6 29 29 26 37 24 30 29.6 34 32 38 28 33 29 22.8 40 28 27 31 29 25.5 33 28 34 37 27 28 29.8 26.4 28 36 29 30	35.4 31 33 30 38 31 34 31 26 31 33 30 26 33 30 24 24.4 30.2 31 34 28 36 22 17 22.2 25.8 36 37 29 36 34 22 43.2 34 36 36 39 38 40 35 32.4 27 35 34 27 23 31 19 28.4 25.6 33 35 32 30 24 26 30.2 31.4 35 33 36 33 36 34 19.4 12 25 28 25 23 23 22 33.4 38.6 29 29 26 37 24 25 30 29.6 34 32 38 28 33 22 29 22.8 40 28 27 31 29 19 25.5 33	35.4 31 33 30 38 31 34 31 ENTP 26 31 33 30 26 33 30 24 INTJ 24.4 30.2 31 34 28 36 22 17 ISTJ 22.2 25.8 36 37 29 36 34 22 ENTJ 43.2 34 36 36 39 38 40 35 INTP 32.4 27 35 34 27 23 31 19 ENFP 28.4 25.6 33 35 32 30 24 26 ESTP 30.2 31.4 35 33 36 33 36 34 ENTJ 19.4 12 25 28 25 23 23 22 ESTJ 33.4 38.6 29 29 26 37 24 25 INTJ 30 29.6 34 32 38 28 33 22 ENTP





Two Js





INTJ



Query	22	22	77	36	20	21	72	72
Query	32	32	~/	30	23	J_	20	

The 5 Nearest Neighbors

Name	Ne	Ni	Te	Ti	Se	Si	Fe	Fi	Туре	Distance
Kuuga	35.4	31	33	30	38	31	34	31	ENTP	16.29601
Agito	26	31	33	30	26	33	30	24	INTJ	11.26943
Ryuki	24.4	30.2	31	34	28	36	22	17	ISTJ	13.37909
Blade	22.2	25.8	36	37	29	36	34	22	ENTJ	16.68772
Hibiki	43.2	34	36	36	39	38	40	35	INTP	25.44484
Kabuto	32.4	27	35	34	27	23	31	19	ENFP	13.64405
Den-O	28.4	25.6	33	35	32	30	24	26	ESTP	11.22141
Kiva	30.2	31.4	35	33	36	33	36	34	ENTJ	17.73697
Decade	19.4	12	25	28	25	23	23	22	ESTJ	27.06954
Fourze	33.4	38.6	29	29	26	37	24	25	INTJ	12.78749
Gaim	30	29.6	34	32	38	28	33	22	ENTP	13.81159
Ex-Aid	29	22.8	40	28	27	31	29	19	ENTJ	18.64511
Zi-O	25.5	33	28	34	37	27	28	24	INFJ	11.36882
Saber	29.8	26.4	28	36	29	30	33	28	INTJ	9.391486
Revice	18.4	15	30	33	33	31	26	23	ESTJ	22.62653

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Query	32	32	27	36	29	31	28	23

Can you do it with out....

• $O(N^2)$ or $O(N \log N)$ Sorting?

How about using constant time?

O(N)