Notes on the Devnagari characters in this dataset

Devnagari is descendent of the ancient Brahmi script and is the script of many languages including Hindi, Marathi, Gujrati, Nepali and Sanskrit. Devnagari is written in non-cursive or discrete form from left to right. Each letter represents a consonant, which carries an inherent vowel *a*. This inherent vowel can be muted by the vowel *halanta*, or can be modified by other vowels. Two or more consonants can be combined together with vowels to form ligatures, or conjuncts or *samyuktasharas*.

As per the Unicode standard 5.1 (based on ISCII 1988), the Devnagari script consists of 112 base symbols including digits, additional consonants and vowels for various other languages like Sanskrit, Marathi, Sindhi other than those used popularly in Hindi.

Following is the Unicode chart for Devnagari script.

	090	091	092	093	094	095	096	097
0		Ť	Ы	₹ ‱	ें इ	35	ऋ	O 0970
1	्र	ऑ	ড	₹ 0931	ु	់	रू	
	0901	0911	0921	0931	0941	0951	0961	0971
2	் 0902	ऒ ®12	ढ ⁰⁹²²	ल ••¤	ୣଌ	<u> </u>	್ಲು	ॲ ₀₉₇₂
3	ः 0903	ओ	ण ₀₉₂₃	<u>∞</u>	୍ଧ ୭୫३	ဲ	ැස	
4	ऄ	औ	त	0934 0934	ි ගණ්	ি	_	
	0904	0914	0924	0934	0944	0954	0964	
5	अ	क	थ	व	ঠ		11	
	0905	0915	0925	0935	0945		0965	
6	आ	ख	द	श	े		0	
	0906	0916	0926	0936	0946		0966	
7	इ	ग	ध	ष	े		8	
	0907	0917	0927	0937	0947	annen	0967	
8	क्र	घ	न	स	्र	क़	२	
	8000	0918	0928	0938	0948	0958	0968	
9	उ	ङ	न ₀₉₂₉	ह ***********	ॉ	ख	A~ 888	
	0909	0919	0929	0939	0949	0959	0969	
Α	ऊ	च	प		ॊ	ग	8	
	090A	091A	092A		094A	095A	096A	anna
В	ऋ	छ	फ		ो	ज़	ų	ग
	0908	0918	092B	amma	0948	0958	0968	097B
С	ऌ	ज	ब	Ç	ौ	७∙ॐ	६	ত্র
	0900	091C	092C	093C	094C	095C	096C	097C
D	कु	झ	भ	2	्	छः.छ	9	5
	0900	091D	092D	093D	0940	095D	096D	097D
Е	Ť.	ञ	म	ा		फ़	2	<u>ड</u>
	090E	091E	092E	093E	HHHH	095E	096E	097E
F	Ţ 090F	<u>र</u>	य ₀₉₂ ғ	ি জ্ঞ		यः	9eF	<u>ब</u>
ı	USUF	49 F	V32	USSF	mmi	usar.	030	varr

The dataset collected at HP Labs, India consists of the symbols popularly used to write Hindi. The dataset contains 111 distinct symbols which comprises 36 consonants, 26 half consonants, 12 vowels, 11 vowels in independent form, 13 ligatures (samyuktaksharas) and 11 special symbols. All the symbols are collected with the shirorekha (class id 0) except for the vowels. Samples of two vowels were collected more than once to record different possible positions with respect to the main consonant.

The following table shows the symbols in the dataset.

_	अ	आ	इ	ई		उ	ক্ত	:	框	ए	पु	ओ
औ	क	ख	ग	E	Ţ	ङ	च	7	5	ज	झ	ञ
ट	ठ	ड	ढ	U	- 1	त	ध	1	र्	द्य	न	प
फ	डा	भ	म	Z	Ĺ	Ţ	ल	-	<u> </u>	श	ब	ब
ह	क्ष	त्र	হা	T		Ĵ	f	Τ,	,	9	c	`
2	Ĵ	Ĵ		V	`	6	8				- 1	व
रु	1	3	₹	ū	-	द्ध	5	1	σ	7	₹	٤
3	÷	τ	फ	Ē		£	I		3	,	ŗ	^
<u>ú</u>	5	á	r	£		₹	8-	-	3	क्त	ट	त्त
द्	द्घ	द्य	द्ध	च	श्र	른	म	ह्य	ह	ह	रू	स्व

The following table lists out the symbols present in the dataset along with their character ids and UNICODE symbols.

Character Id.	Symbol	Unicode
0	_	
1	अ	0905
2	आ	0906
3	इ	0907
4	इ ई	0908
5	उ	0909
6	ऊ	090A
7		090B
8	ए	090F
9	ए ऐ	0910
10	ओ	0913
11	औ	0914
12	क	0915
13	ख	0916
14	ग	0917
15	घ	0918
16	ङ	0919
17	च	091A
18	চ্চ	091B
19	ज	091C
20	झ	091D
21	স	091E
22	ट	091F
23	ठ	0920
24	ड	0921
25	ढ	0922
26	ण	0923
27	त	0924
28	ध	0925
29	द	0926
·		•

30	ध	0927
31	न	0928
32	ч	092A
33	फ	092B
34	<u>ह</u> ा	092C
35	<i>ह</i> .1	092D
36	H	092E
37	य	092F
38	र	0930
39	ल	0932
40	व	0935
41	श	0936
42	व	0937
43	स	0938
44	ह	0939
45	क्ष	0915 094D 0936
46	त्र	0924 094D 0930
47	গ্ন	
48	Ţ	093E
49	f	093F
50	J	0940
51	9	0941
52	6	0942
53		0943
54	<u> </u>	0947
55	7	0948
56	f	094B
57	Ť	094C
58	•	0902
59	J	0945
60	٠	0901
61	0	
62		094D
63		093C
64		0964

65	व	0915 094D
66	ख	0916 094D
67	1	0917 094D
68	3	0918 094D
69	₹	091A 094D
70	<u>~</u>	091C 094D
71	इ .	091D 094D
72	হ	091E 094D
73	σ	0923 094D
74	7	0924 094D
75	₹	0924 094D 0924 094D
76	શ	0925 094D
77	ં	0927 094D
78	-	0928 094D
79	τ	092A 094D
80	प	092B 094D
81	ē	092C 094D
82	£.	092D 094D
83	ţ	092E 094D
84	3	092F 094D
85	,	
86	r	
87	٨	
88	7	0932 094D
89	5	0935 094D
90	\$	0936 094D
91	7	0937 094D
92	¥	0938 094D
93	ह	0939 094D
94	&	0915 094D 0936
95	8	0936 094D 0930 094D
96	क्त	0915 094D 0924
97	ट्ट	091F 094D 091F
98	त्त	0924 094D 0924
99	द	0926 094D 0926

100	द्ध	0926 094D 0935
101	द्य	0926 094D 092F
102	द्ध	0926 094D 0927
103	इ	0928 094D 0928
104	श	0936 094D 0930
105	हम	0939 094D 092E
106	ह्य	0939 094D 092F
107	ह	0939 094D 0930
108	ह	0939 094D 0943
109	रू	Matra Only
110	रू	Matra Only