

Appendix VI

Computational *Raga* Statistics till 2022

Dr. Vinod Vidwans has developed an AI system called *AI-RagaGen*. This system is capable of computationally generating existing and all possible new *Ragas* based on the Generative Theory of Indian Music (GTIM). Statistical summary of the computationally generated *Ragas* is as follows.

Regular *Ragas*- *Sadharana Ragas* by *Vadi-Samvadi* pairs

SN	Vadi-Samvadi Pairs	Numbers
1	KRe-KDha	49
2	Re-Dha	147
3	Re-Pa	851
4	KGa-KNi	84
5	KGa-KDha	86
6	Ga-Ni	496
7	Ga-Dha	164
8	Ma-Sa	1741
9	Pa-Sa	2732
10	KDha-KGa	522
11	KDha-KRe	232
12	Dha-Ga	696
13	Dha-Re	169
	Total	7969

Regular *Ragas*- *Sadharana Ragas* by Categories

SN	<i>Raga</i> Category	Numbers
1	<i>Sampurna-Sampurna</i>	255
2	<i>Shadava-Shadava</i>	624
3	<i>Oudava-Oudava</i>	413
4	<i>Shadava-Sampurna</i>	1450
5	<i>Sampurna-Shadava</i>	955
6	<i>Oudava-Sampurna</i>	1586
7	<i>Sampurna-Oudava</i>	280
8	<i>Oudava-Shadava</i>	1021
9	<i>Shadava-Oudava</i>	354
10	Different <i>Varjya Swara Ragas</i> (<i>Shadava-Shadava</i>)	1031
	Total	7969

Different *Varjya Swara Ragas- Prakirna Ragas*

SN	Raga Category	Numbers
1	<i>Shadava-Shadava</i> Different <i>Varjya</i>	-
2	<i>Oudava-Oudava</i> Different <i>Varjya</i>	398
3	<i>Oudava-Shadava</i> Different <i>Varjya</i>	1082
4	<i>Shadava-Oudava</i> Different <i>Varjya</i>	210
	Total	1690

Regular *Ragas* = 7969

‘Multi-Dual’ *Swara Ragas*=902

Different *Varjya swara Ragas* = 1690

***Tri-Gandhar Ragas (Prakirna Ragas)* = 21**

***Chatuhswaradi Ragas*= 1208**

Total No. of *Ragas*- All put together = 11,790