LIST OF FIGURES

1.1 Impact of MIP on survival of 5-Year old brain tumour patients over years 4
1.2 Magnetic resonance imaging (MRI) exams, total per 1000 population 5
1.3 Percentage of MRI scans on different organs 7
1.4. Rise in per capita healthcare expenditure in India. 14
3.1. Sample MRI of a glioblastoma tumor in the parietal lobe. 62
4.1 Cerebral cortex gyral hyperintensities showed in MRI. 73
4.3 Fully Connected Topology. 82
4.4 Normal - T2W MRI Brain in axial plane 86
4.5 Benign Tumor - T2W MRI Brain in axial plane 86
4.6 Malignant Tumor - T2W MRI Brain in axial plane 87
4.7 Segmented T2-weighted brain image with tumor 88
4.8 High Level Architecture of Hadoop - Sachin (2014) 94
4.9 Job Execution model of Spark - Ashwini (2015) 96
4.10 Proposed architecture for processing brain MRIs with multi cluster Apache Hadoop / Spark in cloud 97