

Pakistan Railway Network Graph

Our Abstract

Our Goal Is to establish a network of Railway Routes for the best Estimated Time of Arrival for a particular Station and also to find the best possible Route for any given Station

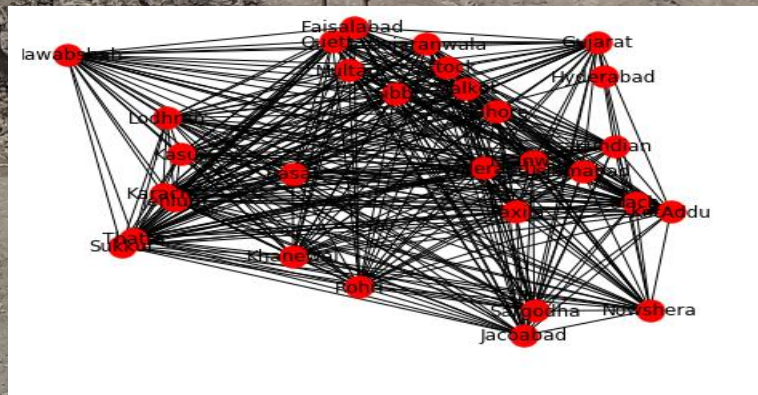
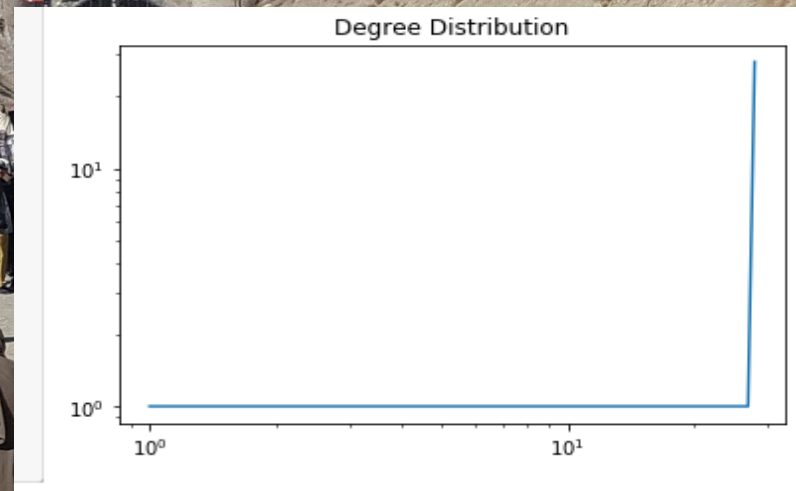
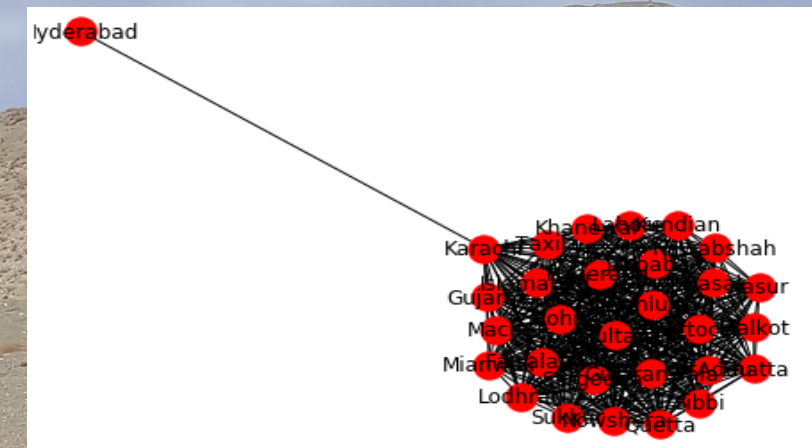


Fig -3 shows the visualization of our Pakistan railway analysis. Where you can see vertex connected with one another, and the eccentricity is now clearer.



In Fig - 4, we anylase the degree distribution.

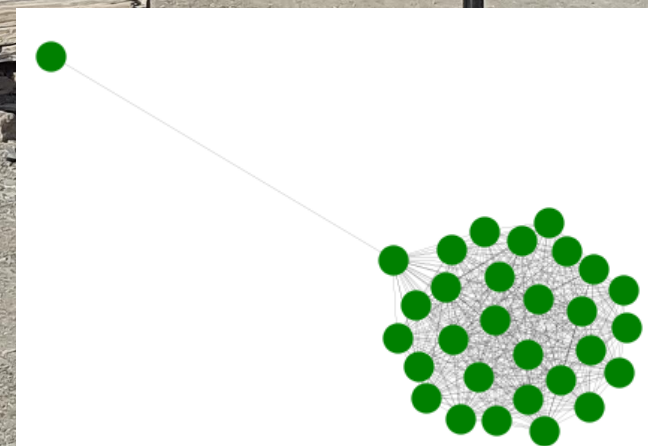


In fig -5 we have our graph with names of every vertex and the edges across every node.

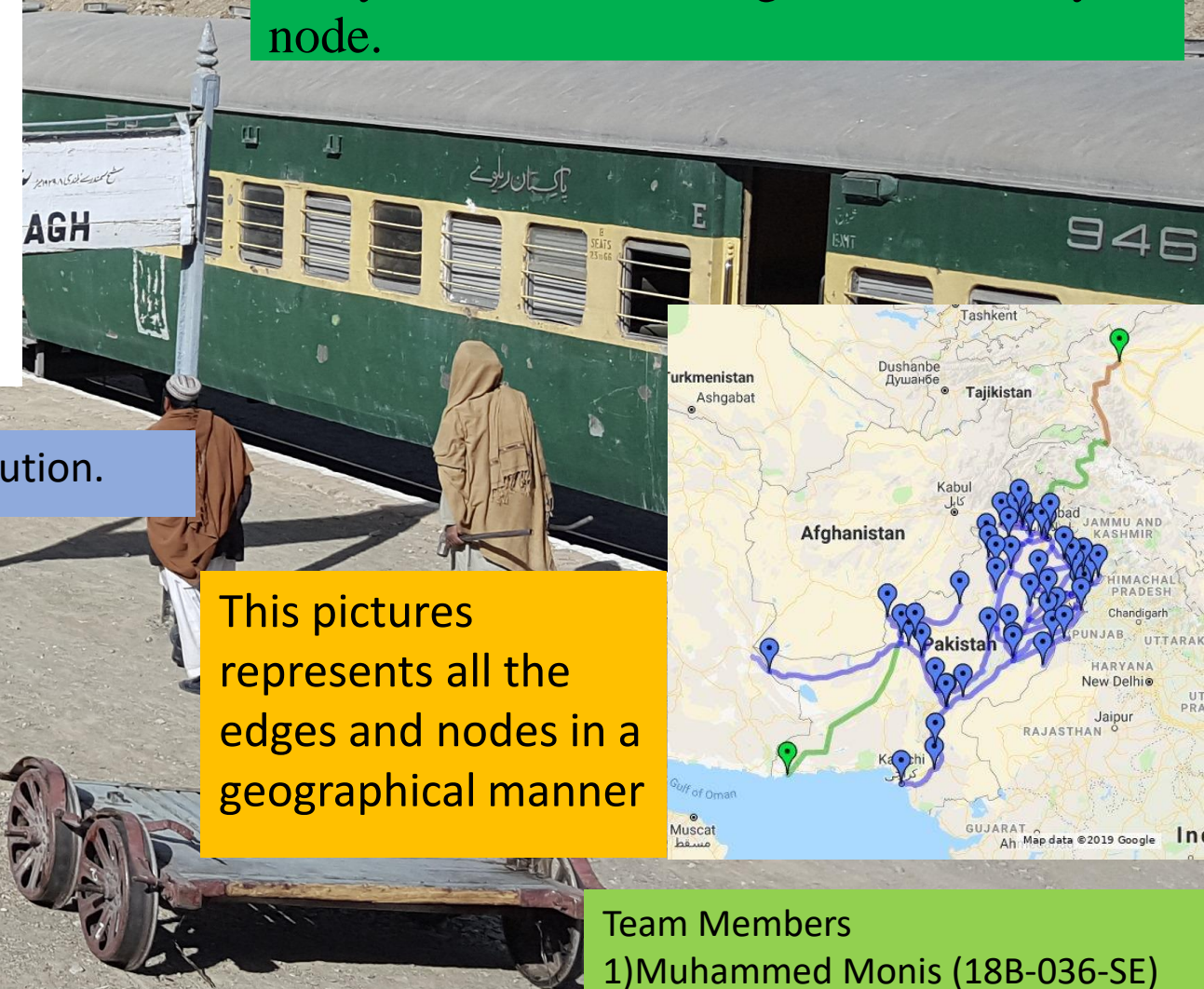
From the fig-1 we extract information about whole railway system around every city, and across the country Which we can easily use the Pakistan Railway's Website and through Wikipedia to get a close estimation on how many edges and vertices are in the railway network. In fig-1 there are 30 nodes, vertex, which translates as cities, 406 nodes which are the routes of railway, and 27.067 show how many edges are incident with nodes.

Name:
Type: GraphView
Number of nodes: 30
Number of edges: 406
Average degree: 27.0667

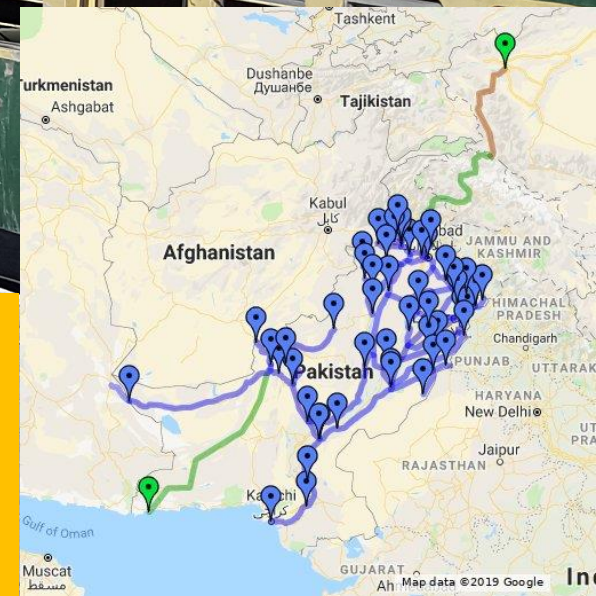
In (fig-2) we have got another interesting information about the railway network and that is its vertices and edges. What are these? The eccentricity of the railway system, means how many nodes are connected with each one vertex (cities connected) so, we can analyze it that, in Pakistan's railway network every three sites are connected with one vertex



In fig -6 the vertex of PR network are more cleared, and visualized



This pictures represents all the edges and nodes in a geographical manner



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