# Relationship between PageRank and DegreeRank

# The citation network dataset has been used.

# In degree value on x-axis and PageRank value on y-axis

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import networkx as nx

import matplotlib.pyplot as plt

def main():

G = nx.read\_edgelist('coba.txt', create\_using=nx.DiGraph())

deg = dict(G.in\_degree()) #Returns a dictionay, with key as nodes and indegrees as values.

pr = nx.pagerank(G)

pr\_values = []

for i in deg.keys():

pr\_values.append(pr[i])

plt.plot(deg.values(), pr\_values, 'ro', markersize = 3)

plt.xlabel('Indegree value of the nodes')

plt.ylabel('PageRank value of the nodes')

plt.show()

main()

