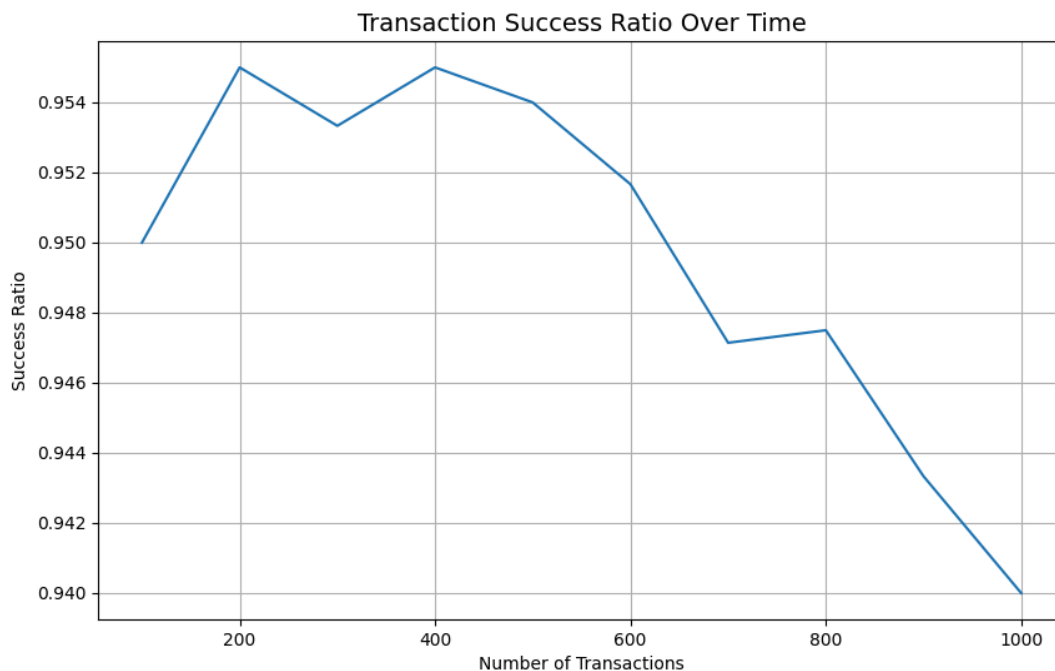# Introduction to Blockchain
Assignment-2

Anadi Sharma (B21CS008)

Here are my findings when I ran the experiment for an increased number of transactions for the same number of users.
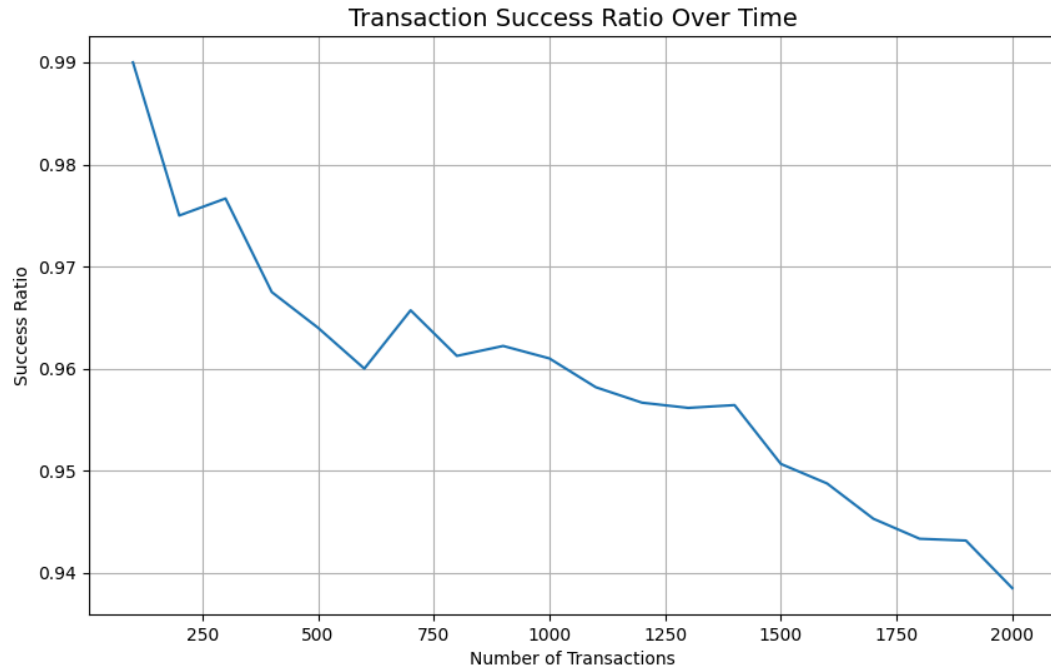
As we went from n = 1000 to n = 20,000 the amount of successful transactions decreased because the network followed power law distribution and the links started to get saturated.
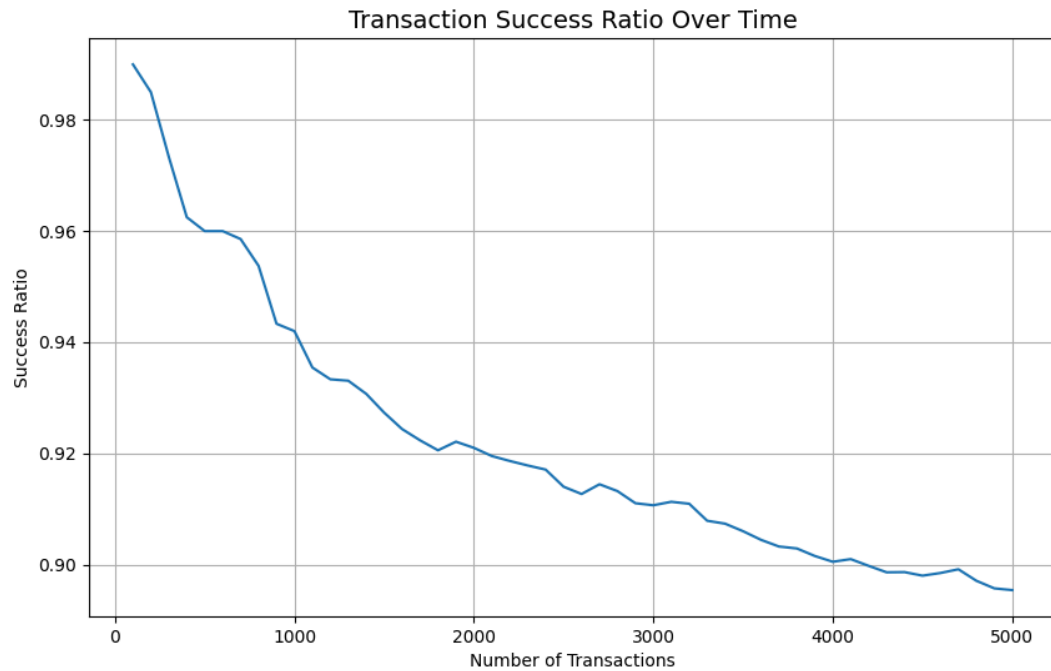
Here're the graphs:
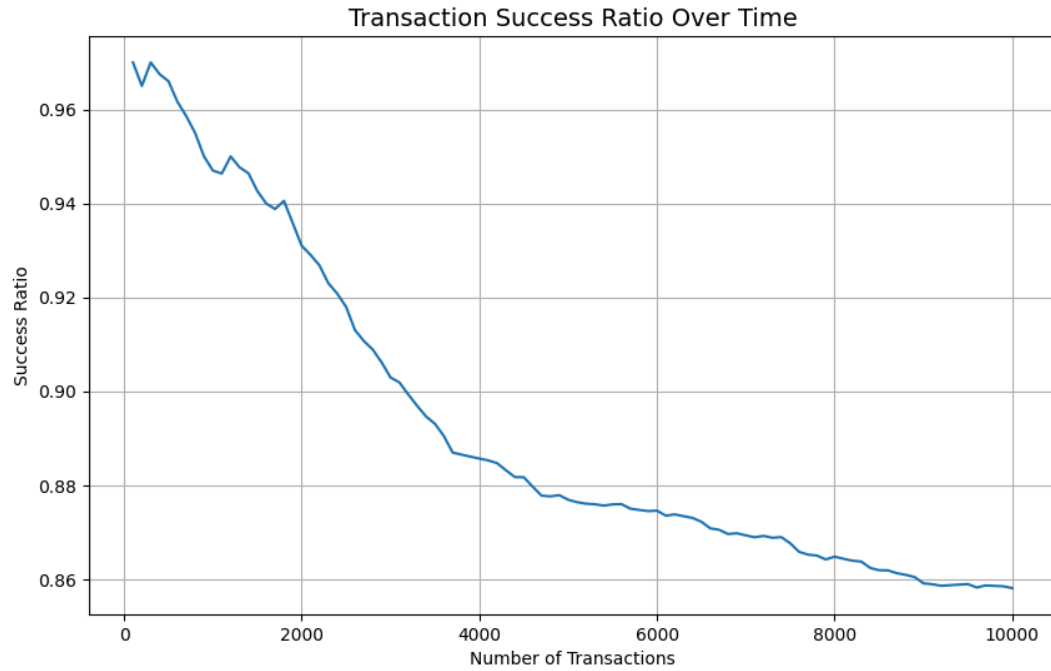1. Total #transactions = 1000, success rate graph:

2. Total #transactions = 2000, success rate graph:

Transaction Success Ratio Over Time

3. Total #transactions = 5000, success rate graph:

Transaction Success Ratio Over Time

4. Total #transactions = 10000, success rate graph:

Transaction Success Ratio Over Time

5. Total #transactions = 20000, success rate graph:

Transaction Success Ratio Over Time