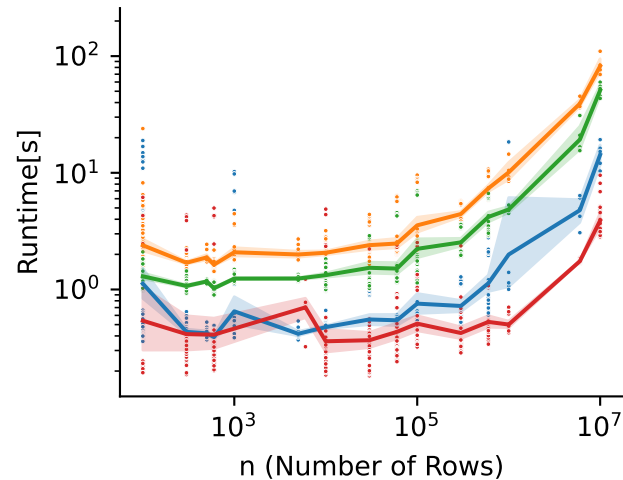
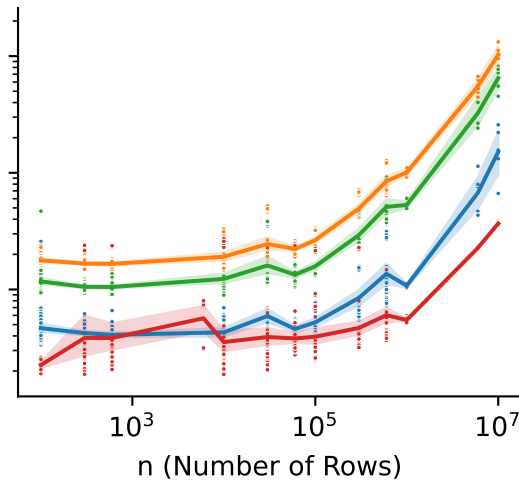
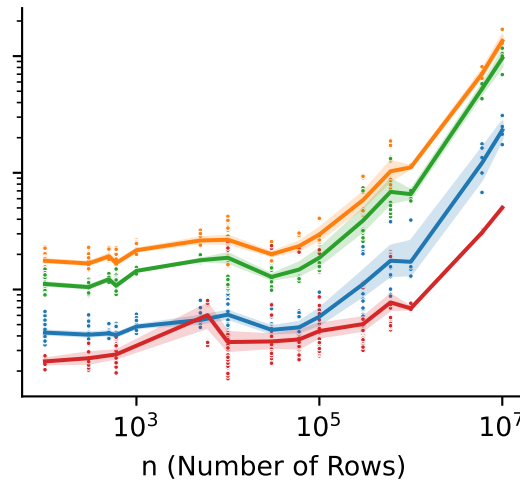
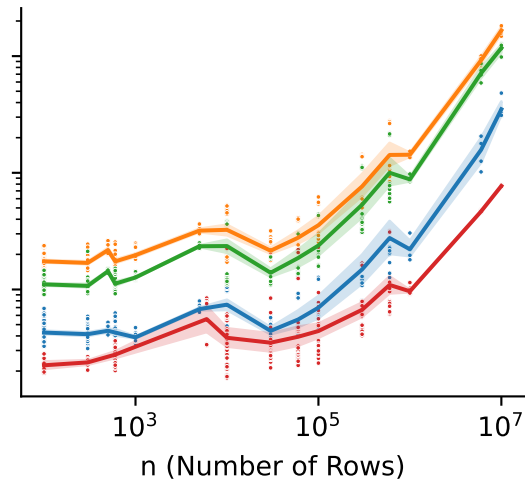


$k = 2$  $k = 5$  $k = 10$  $k = 20$ 

method

- PySpark
- QR
- SVD
- LU