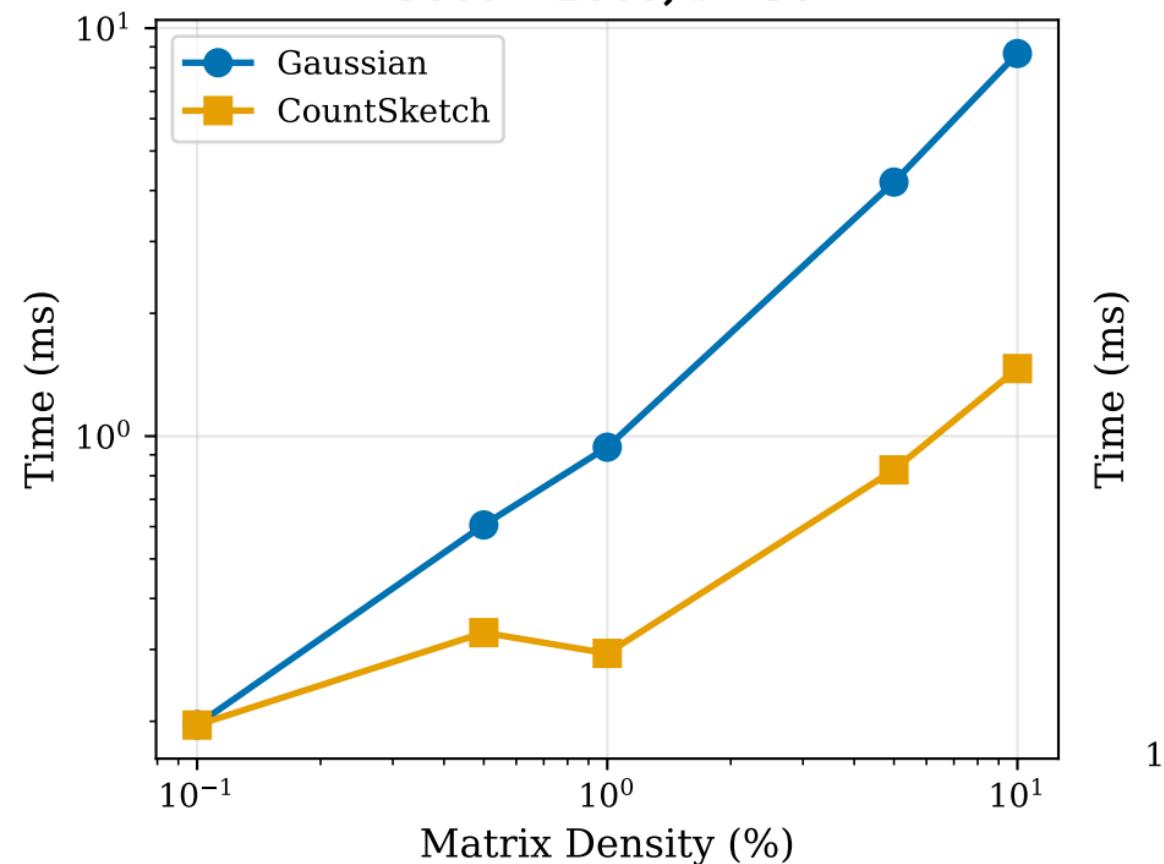
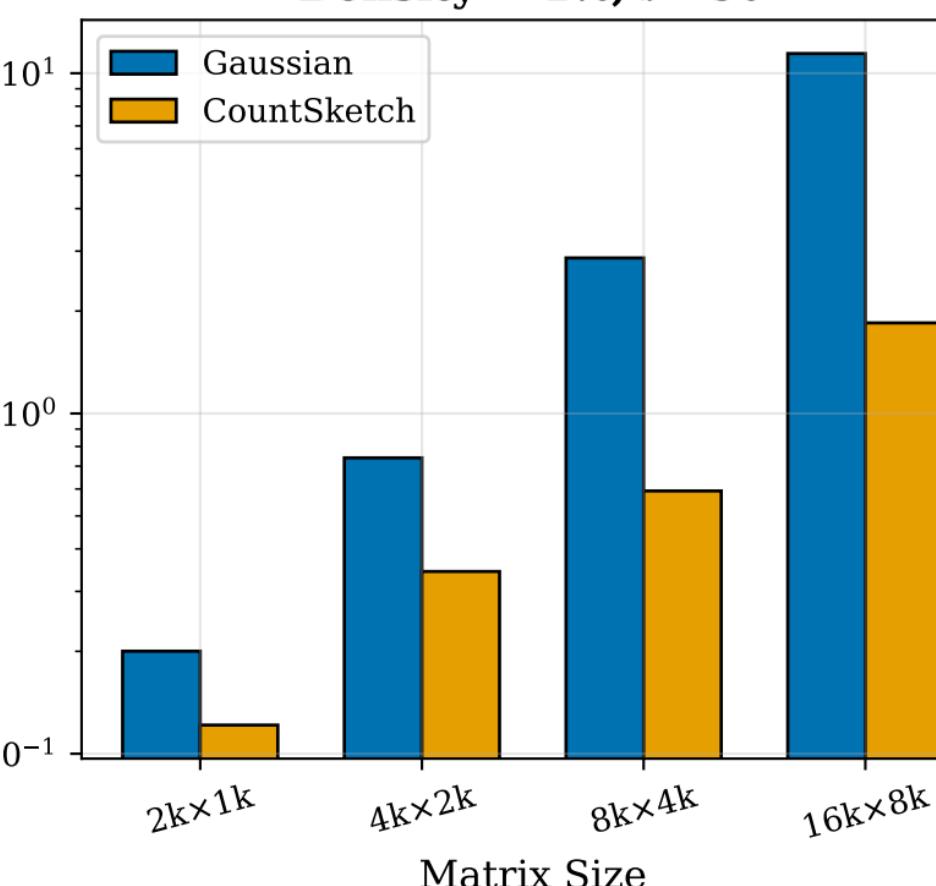


**(a) Runtime vs Density**  
 $5000 \times 2000, l = 50$



**(b) Runtime vs Size**  
Density = 1%,  $l = 50$



**(c) Algorithmic Speedup**  
Naive Pure-Python,  $n = 500$

