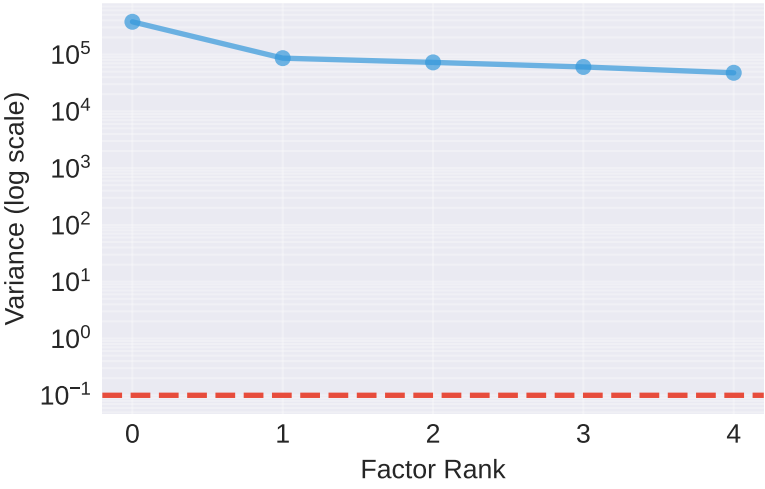


Factor Variance Analysis: ARD Shrinkage Assessment (K=5)

Factor Variance Profile (K=5): 5 Active Factors

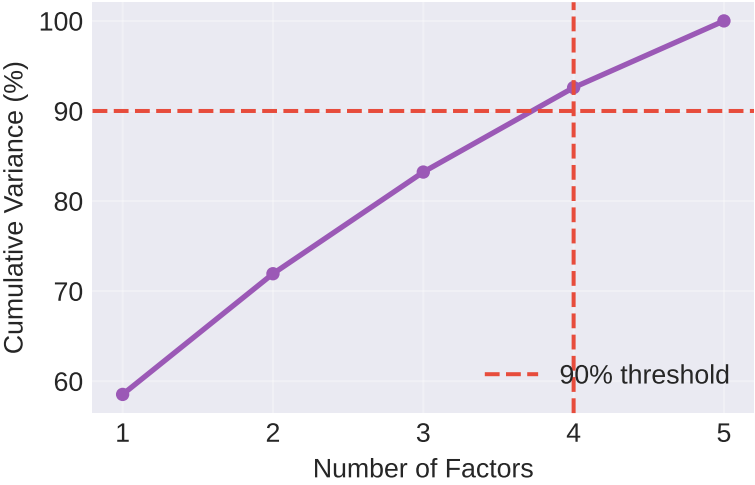


Log-Scale Variance  
(Sharp drop = good ARD)

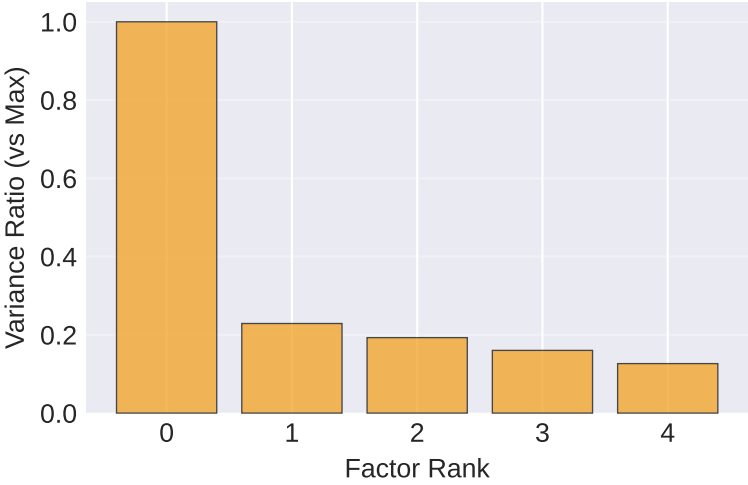


Cumulative Variance  
(90% @ 4 factors)

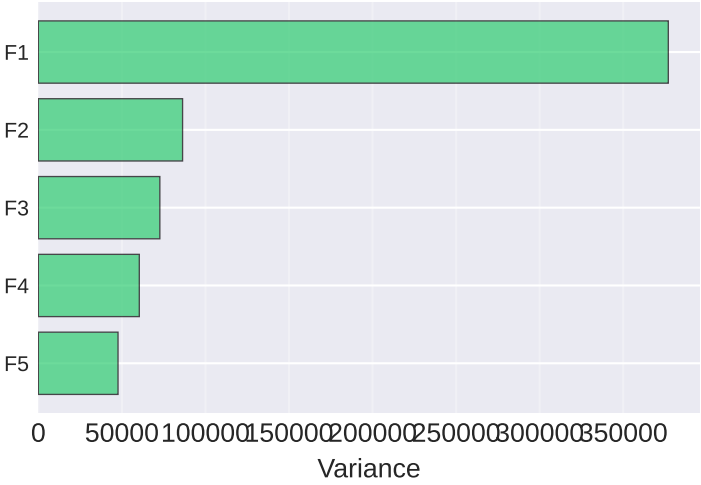
Factor Rank (sorted by variance)



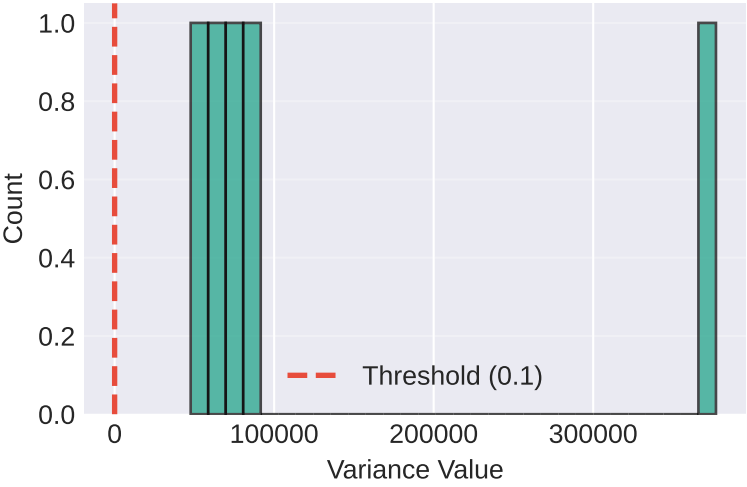
Normalized Variance Profile



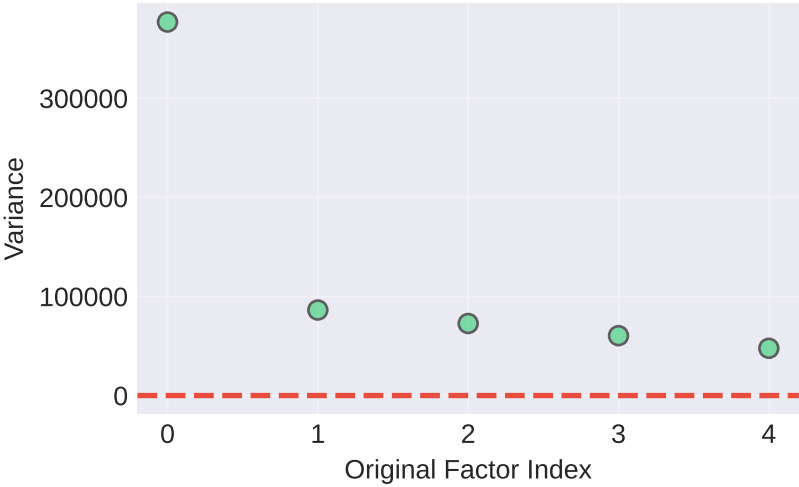
Top 5 Factors



Distribution of Factor Variances



Variance by Original Factor Order



VARIANCE PROFILE SUMMARY

Total Factors (K): 5  
Active Factors: 5  
Effective Dim (90%): 4

Max Variance: 376956.9375  
Mean Variance: 128811.0453  
Median Variance: 72703.8750

Top 3 Variances:  
#1: 376956.9375  
#2: 86307.9531  
#3: 72703.8750

ARD Shrinkage: N/A (K < 10)  
Shrinkage Ratio: nan

INTERPRETATION:

Poor shrinkage suggests:

- Convergence issues
- Overfitting
- Need longer sampling