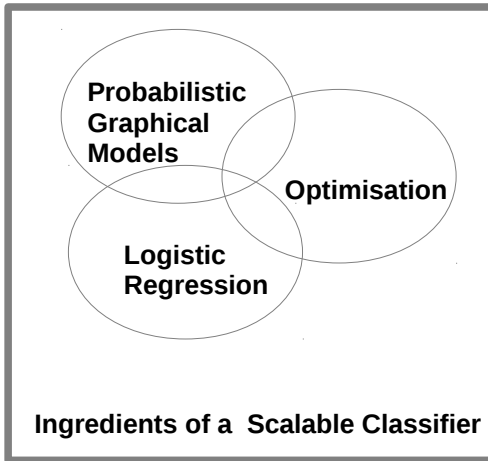
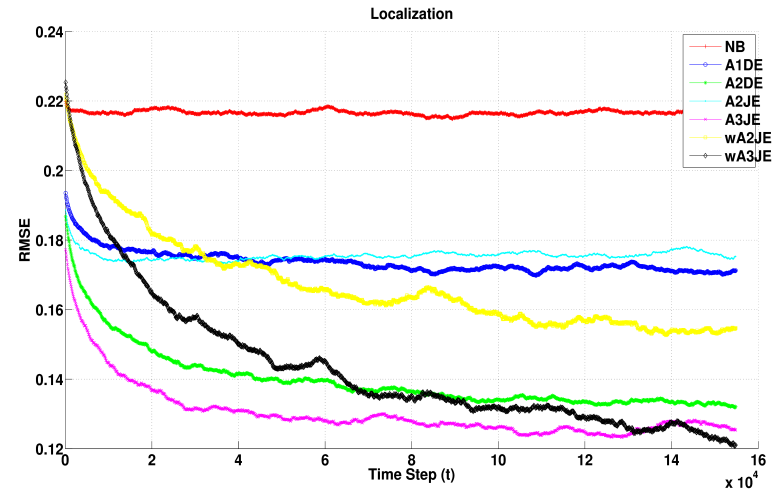


Big Analysis for Big Data

- Big Analysis ~ Scalable Learning
 - Scalable Classifiers
 - Scalable Techniques
 - Scalable Platforms
- Typical Classifiers: SVM, Neural Networks, Deep Learning, Ensemble-based methods - Random Forest, etc.
- Desired Classifiers: Low Bias, Minimal Pass, Minimal Tweaks, Multi-class.



- Efficient Data Structures
- Heuristics: Generative Discriminative blending
- Preconditioning
- Parameter Hashing

Platform for Massive Parallelization, e.g., AllReduce

- Miscellaneous Issues
 - Data Pre-processing
 - Bad-Data Analysis
 - Omni-directional Learning
 - Stream Learning

