



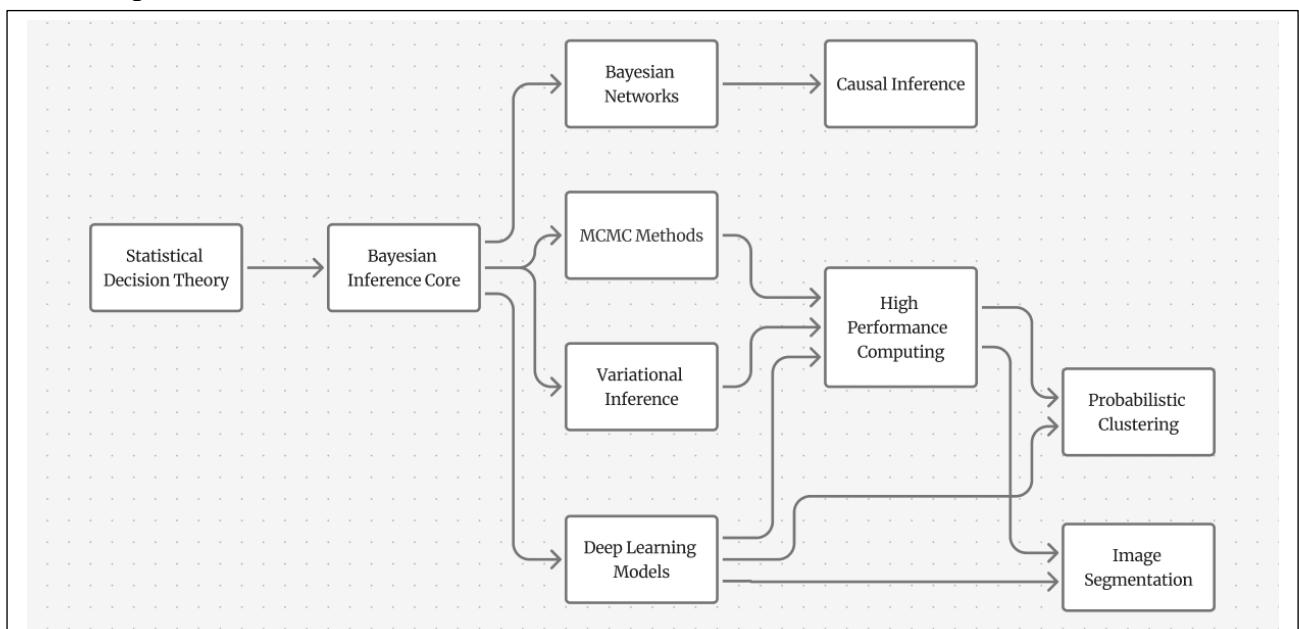
Advanced Statistical Learning (ASL) Lab

- **Name of Principal Investigator:** Dr. Pushkal Kumar
- **Name of Co-Principal Investigators:** Dr. Ashkamini and Dr. Suman Mahapatra



- **Research Theme:** ASL lab focuses on the intersection of theoretical statistics and machine learning to provide data-driven solutions for the cutting-edge real-world problems.
- **Broad Area of Research and Scope:**
 - Statistical Decision Theory
 - Variational Inference and MCMC Methods
 - Bayesian Network and Causal Inference
 - Generative Deep Modelling
 - High Performance Bayesian Computing
 - Image Segmentation
 - Probabilistic Clustering

Schematic Representation of Broad Area of Research:



Industry/Academia Collaborations:

- Prof. Manas Ranjan Tripathy, NIT Rourkela
- Prof. Somesh Kumar, IIT Kharagpur
- Dr. Habiba Khatun, IIT Kanpur
- Prof. Pradipta Maji, ISI Kolkata
- Prof. Satyanshu K Upadhyay, B.H.U., Varanasi
- Dr Reema Sharma, B.H.U., Varanasi

Targeted Application Area:

- AI in Healthcare
- Computational Biology and Genomics
- Financial Forecasting and Risk Modelling
- Social Networks and Societal Analytics

Visions :

- Organizing Workshop and Conferences
- Publishing High Impact Research Articles
- Patent Publications
- Acquiring Research Grants from Academia and Industry
- Furnishing PhDs

Group Members :



Dr. Pushkal Kumar



Dr. Ashkamini



Dr. Suman Mahapatra



Adrija Ray Dakua
(Research Scholar)



Prerna Singh
(Research Scholar)



Prity Suman
(Research Scholar)