Data Sciences and Analytics Centre DSAC



Kamal Karlapalem

kamal@iiit.ac.in

Data mining, visual data analytics, workflow management systems, database systems, agents & applied robotics.

Intensive Data Visualization: Visualize subspace clusters, overlaps, regions of influence. Cluster driven visual data exploration.

Semantics Extraction from Actionable Text: Detective novels: Extract evidence, determe culprits, determine spatial and temporal events and tasks from the text. Also for Medical documents.

Workflow Systems: Workflow of tasks in IoTs and electronic contracts, and build conceptual models for them.

Agents & applied robotics: Design autonomous, intelligent agents for applications in the domain of Multi-Robot and Multi-Agent Systems.

Vikram Pudi

vikram@iiit.ac.in

Data mining algorithms, Research assistants, Applications & systems.

Data Mining Algorithms: Simple, modular, domain independent and data driven algorithms classification, regression, frequent patterns, similarity and clustering on diverse kinds of data.

Applications: NLP (disambiguation, POS tagging), Research assistants, Viral simulator, Music mining, predict cricket winners

Systems:

Metabolomics LIMS: Bio-informatics researchers can upload and analyze metabolomics data.

Plug Load Identifier: Identify devices plugged into a power socket.

Data Foundation: Repository of datasets for AI/ML

pkreddy@iiit.ac.in P. Krishna Reddy

Data mining, IT for agriculture, Decision support systems.

Data / Web mining: Frequent patterns (Periodic, rare, coverage, diverse), Search engine advertisement, advertisement placement, E-commerce, Banner Recommendation systems, Link-based community extraction, Document representation and classification.

Schema Systems: **Database** summarization, Transaction synchronization, Database recovery, Data replication, Speculative transaction management, Memory efficient mining, User interfaces, Weatherbased decision support systems.

IT for Agriculture: Personalized agro-advisory, Systems for bridging lab to land gap, Virtual crop labs for agriculture education, Location-specific content development, Agriculture planning tools for a farmer. IT for law: Finding similar judgments.

lini.thomas@iiit.ac.in Lini Thomas

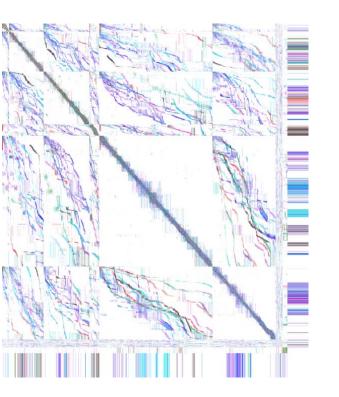
Skylines, automated medical document mining and graph analytics.

Medical Data Analysis: Tag medical entities like drugs, disease terms, treatments, etc in medical documents. Detect outliers in clinical trials. Medical document search (query expansion using fuzzy logic, relevance feed-back).

Skylines: Skyline analytics & visualisation.

Clustering: Generate clusters of varying densities and shapes by estimating local density, identify outliers, perform on high dimensional data.

Graphs Mining: Graph analysis on evolving graphs. Determining maximal frequent subgraphs where the graph database can undergo changes.



HEIDI VAKD-2009

Region of Influence VDA

