

The Team



Essence *in a Nutshell*



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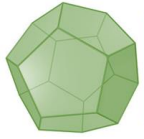
Fatima G



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Data Science & Distributed Computing

Distributed ML at the Edge

- Time-optimized Model Maintenance
- Distributed Model Synopsis Management
- Resilient ML Systems

Analytics at the Edge

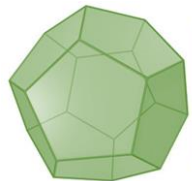
- Localize Inferential & Predictive Analytics
- Mining Interesting Data Regions
- Query-driven Aggregate Prediction for Explanatory Analytics
- Large-scale and Edge-centric Regressions
- Adaptive Learning of Aggregate Analytics

Learning Paradigms & Reusability at the Edge

- Local Federate Learning
- ML/DL Model Reusability at Inference & Training
- Multi-armed bandit for Query Prediction & Novelty Detection

Distributed Data Management at the Edge

- Decentralized Data-driven Tasks Management
- Uncertainty-driven Query/Tasks Allocation
- Quality-driven & Time-optimized Task Offloading
- Proactive Services & Tasks Management
- Quality-of-Service Monitoring



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