Data Quality Challenges and Solution Approaches in YAHOO!'s Massive Data Environment

ABSTRACT-----

After significant initial Data Quality wins in Yahoo!'s Audience pipeline, there are many technical challenges in identifying next level DQ issues and organizational challenges of institutionalizing the data quality program in Yahoo!'s massive data environment. Below are some of the areas of focus:

- Application of time series analysis for detection of data anomalies
- Lean Manufacturing and Six Sigma application to data pipeline analysis
- Standardized DQ Assessments across all products
- Application of value of information techniques in prioritization of quality improvements

BIOGRAPHY-----

Dan Defend

Yahoo!

Dan Defend earned his Masters in Computer Science from University of Illinois. He has experience at Motorola as an Engineering Manager in Unix OS and embedded cell phone software where he also led analysis and data-driven improvements using Digital Six Sigma methodology. He is currently leading the Data Quality program at Yahoo! which relies heavily on organizational leverage and distributed ownership and accountability.



Aparna Vani

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Aparna Vani earned her Masters in ECE from University of Houston. She worked as a Hardware Design engineer at Compaq and development lead at TVGuide. She has extensive analysis, quality and architecture experience at Motorola. Currently, she is the Chief DQ Architect at

Yahoo, responsible for DQ strategy and design, and responsible for organization-wide DQ improvement projects involving centralized monitoring and data cleansing across Yahoo!'s data pipelines.

































