

Holistic Sum-Product Optimization for Large-Scale Machine Learning

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ABSTRACT

blah blah

1. INTRODUCTION

Intro

2. SYSTEM ARCHITECTURE

SystemML

3. RELATED WORK

Sum-product optimization frameworks: FAQ [1], AJAR,
PANDA.

DB query compilation
PL comprehensions
HPC operator fusion
ML systems operator fusion

4. CONCLUSIONS

We have the best theory and the best system!
We have lots of future work!

5. REFERENCES

- [1] M. A. Khamis, H. Q. Ngo, and A. Rudra. FAQ: Questions
Asked Frequently. In *PODS*, 2016.

*Work done during an internship at IBM Research – Almaden.