TED WILD

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SUMMARY

Leadership experience with distributed platform and machine learning projects. Extensive experience with big data, scalable computing, and writing efficient programs

Design and implementation for the Bing document understanding platform, which computes features on billions of documents per day for the Bing index and knowledge graph

Applied machine learning on web data including entity extraction, entity linking, wrapper induction, and document topic analysis

EXPERIENCE

Microsoft   August 2008 - Present
Principal Software Engineer   *Bellevue, WA*

· Event-driven document understanding platform for Bing question answering and recommendations. Enables shipping features at scale using open technologies such as Spark and Kafka
· Deep learning initiative to accelerate quality by providing a unified framework for feature development
· Improved developer agility and lowered maintenance costs by enabling the use of C# instead of C++
· Improved release agility by introducing rigorous and automated performance and parity tests
· Topic analysis for Bing recommendations
· Wrapper induction for Bing captions, knowledge graph and Exchange Online emails. Thousands of wrappers extract billions of attributes per day using minimal labeling
· Publication date and email extraction for Bing.com snippets

University of Wisconsin-Madison   June 2003 - August 2008
Research Assistant   *Madison, WI*

· Incorporating expert knowledge in supervised learning
· Efficient algorithms for clustering, classification, multi-instance learning and linear programming

EDUCATION

University of Wisconsin-Madison

Ph.D. in Computer Sciences (minor in Statistics)   *August 2008*
Thesis: *Optimization-based machine learning and data mining*

M.S. in Computer Sciences   *May 2004*

University of Texas at Austin

B.S. in Computer Sciences (with Highest Honors)   *May 2002*
Dean's Honored Graduate

TECHNICAL STRENGTHS

Machine Learning	Text classification, extraction, latent analysis, feature engineering. Label collection, data cleanup and judgement guidelines. Lambda-MART, SVMs. Some experience with deep learning
Big data	Map-reduce and pub-sub systems using Microsoft internal technologies. Some experience with Spark, Kafka, HBase
Programming Languages	C#, C++. Some experience with Python, Scala, F#