Josua Krause

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Education

PhD in Computer Science, NYU Tandon School of Engineering
dissertation: "Using Visual Analytics to Explain Black-box Machine Learning"
advisor: Prof. Dr. Enrico Bertini
New York, USA – 2013 - 2018

MSc in Computer Science, University of Konstanz
BSc in Information Engineering, University of Konstanz

Employment

UNDP, Accelerator Labs
role: NLP Researcher
tasks: focus on accessibility of large language models in low-resource environments
and facilitating information access in low-bandwidth communities through LLMs
New York, USA – 2023 - current

Accern, NLP startup in the FinTech space ($20M Series B early 2022)
role: Vice President of Data Science
tasks: lead of research, development, and deployment of AI models; focus on
deep repr. learning, natural language processing, and adaptive learning at scale
tenure: started during Pre-Series A as Senior Data Scientist
New York, USA – 2018 - 2023

NYU Tandon School of Engineering
role: Adjunct Professor
teaching: Foundations of Data Science
New York, USA – 2021

Pacific Northwest National Laboratory National Security Internship Program
IBM T. J. Watson Research Center Research Summer Intern
NYU Tandon School of Engineering Research and Teaching Assistant

Patents

Josua Krause, Kenney Ng, Adam Perer: **"Identifying and ranking risk factors using trained predictive models"**,
US Patent 11,355,245 and 11,355,246 – submitted 2017, accepted 2022

Select Publications

Josua Krause, Adam Perer, Enrico Bertini: **"A User Study on the Effect of Aggregating Explanations for Interpreting Machine Learning Models"**,
KDD Workshop *on Interactive Data Exploration and Analytics (**IDEA**)* 2018

Josua Krause, Adam Perer, and Kenney Ng: **"Interacting with Predictions: Visual Inspection of Black-box Machine Learning Models"**,
*ACM Conference on Human Factors in Computing Systems (**CHI**)* 2016

Josua Krause, Adam Perer, Enrico Bertini: **"Using Visual Analytics to Interpret Predictive Machine Learning Models"**,
ICML Workshop *on Human Interpretability in Machine Learning (**WHI**)* 2016

Josua Krause, Aritra Dasgupta, Jordan Swartz, Yindalon Aphinyanaphongs, Enrico Bertini: **"A Workflow for Visual Diagnostics of Binary Classifiers using Instance-Level Explanations"**,
*IEEE Transactions on Visualization and Computer Graphics (**TVCG** – **VAST**)* 2017

https://scholar.google.com/citations?user=hFjNgPEAAAAJ for full list of publications