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Jayanta Mandi

Summary

PhD Candidate in Machine Learning and Constraint Optimization Data Scientist at PwC, India (2017-18), Authored publications at reputed journals and conferences

Education

2018-Present PhD, machine Learning & Constraint Optimization, Vrije Universiteit Brussel,

Adviser: Prof. dr. Tias Guns, co-head of the Data Analytics Lab,

Area: Data Mining, Machine Learning, Constraint Optimization.

2015–2017 Masters Degree, Business Analytics, GPA: 9.04/10,

Indian Institute of Management, Calcutta,

Master's Thesis: Early Warning System to identify Earnings Management in stressed firms.

Adviser: Prof. Ashok Banerjee, Faculty-in-charge, The Financial Research and Trading Laboratory, IIM Calcutta

2009–2013 Bachelor of Technology, Electronics & Electrical Communication Engineering,

Indian Institute of Technology, Kharagpur, GPA: 8.14/10.

Publications

Jayanta Mandi and Tias Guns. Interior Point Solving for LP-based prediction+optimisation In Advances in Neural Information Processing Systems, 2020

Maxime Mulamba, Jayanta Mandi, Rocsildes Canoy, Tias Guns. Hybrid Classification and Reasoning for Image-based Constraint Solving In 17th International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research, 2020

Jayanta Mandi, Emir Demirović, Peter. J Stuckey and Tias Guns. Smart Predict-and-Optimize for Hard Combinatorial Optimization Problems. In AAAI Conference on Artificial Intelligence, 2020, New York, USA

D. Chakrabarti, N. Patodia, U. Bhattacharya, I. Mitra, S. Roy, J. Mandi, N. Roy, and P. Nandy. Use of artificial intelligence to analyse risk in legal documents for a better decision support. In TENCON 2018 - 2018 IEEE Region 10 Conference, pages 0683-0688, Oct 2018.

Manisha Chakrabarty and Jayanta Mandi. Entropy-Based Consumption Diversity—The Case of India, pages 519-540. Springer Singapore, Singapore, 2019.

Coverage in Popular Press

Ideas for India, How to ease Covid-19 lockdown? Forward guidance using a multi-dimensional vulnerability index, Jayanta Mandi, Manisha Chakrabarty, Subhankar Mukherjee, May 21, 2020.

Business Standard, Earnings management in stressed firms, A. Banerjee, J. Mandi, D N Mukherjee, July 31, 2017.

Experience

June 2017- Data Scientist, PRICEWATERHOUSE COOPERS.

November • Worked on Conversational Agent, User feedback based learning to improve chat experience

- 2019 O Developed framework to quantify risk in legal documents, distributed representations of text using Doc2vec
 - Worked on Deep Learning based OCR to identify Vehicle ID
 - Random Forest model to identify parameters responsible for yield reduction in a steel plant
 - Fast Moving Consumer Goods Visual Analytics Framework to enable better decision making for the management

November Instrumentation & Control System Engineer, Bharat Heavy Electricals Ltd..

- 2013-June Supervised the commissioning activities of steam-turbine and compressor at client sites
 - 2015 Project management and execution by coordinating techno-commercial discussions with all stakeholders

Selected Honors & Awards

- 2015 **Endowed with cash scholarship for academic excellence**, (SGPA > 9.5), Indian Statistical Institute.
- 2016 Finalist, Data Science Game, 1 out of 20 International teams to qualify for the Final.
- 2007 NTSE scholarship award, Selected through competitive nation-wide examination.

Skillsets

Programming Languages: Python,R,C,SQL Frameworks: PyTorch, GurobiPy, OR-Tools **Communication:** English(SRW), Bengali(SRW), Hindi(SO), French(SO), German(SO)