Kshitij Goyal

GitHub | Personal webpage

PhD Researcher in Machine Learning

Leuven, Belgium
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Experience

PhD Researcher @ DTAI Machine Learning group, KU Leuven

Oct' 2018- present

Thesis Topic: Machine Learning for Verifiable Artificial Intelligence

Publications:

- Automatic Generation of Product Concepts With Only Positive Examples (under review) (BNAIC 2022)
 Proposed a novel approach to identify and learn dynamic product concepts (e.g., product categories on e-commerce websites, public playlists on music streaming services) using only positive examples. Evaluated this approach for a music streaming service to effectively identify new dynamic public playlists from a collection of user defined playlists.

Zynga Games, Bangalore, India - Business Analyst

April - Sep' 2017

Analysed key performance metrics for multiple mobile games to provide insights for business strategies in addition to developing an in-house tool to perform A/B tests on newly rolled updates.

Accenture Management Consulting, Bangalore, India - Business Analyst

June 2014 - Mar' 2017

Projects:

- As part of a team, developed fraud detection techniques for a reliability management system for an automotive giant to reduce post-sale expenses. Proposed approach resulted in a projected reduction in warranty spend by \$249 over the course of 4 years.
- Optimised stock levels at central warehouses across multiple locations for a European telecom giant. Proposed a
 rebalancing solution between locations to optimise the value stock that led to an improvement of 9% in the total
 stock value.

Education

Master (MSc) in Artificial Intelligence, KU Leuven (graduated magna cum laude)

Sep' 2017 - Sep' 2018

Master thesis: Proposed and implemented a variant of the classic RankNet approach of ranking documents which personalises the results based on user profiles.

Master (Integrated MSc) in Mathematics and Scientific Computing, IIT Kanpur, India June' 2009 - May' 2014 Master thesis: Analysis of middle censored data under a shifted exponential distribution

Technical Skills

Programming Languages: Python, SQL, Java, R

General: Machine Learning, Satisfiability and Logic, Optimisation

Language Skills: English, Hindi (native speaker)

Leadership & Awards

- Teaching assistant for courses: Informatics (Fall 2019, Fall 2020) and Scripting Languages (Fall 2021), and the master's thesis advisor to 6 students between 2018-2022
- Department representative for the master thesis administration for master in computer science at KU Leuven
- Research paper reviewer for ECMLPKDD 2019 and 2022
- Awarded 2nd prize at the KU Leuven datathon 2018