Abhishek Roy

Principal Data Scientist

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Skills

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Experience

Abhishek Roy
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Github

Strong background in mathematics, programming and problem-solving. Proven ability to direct projects independently as well as lead teams.

Locus.sh

March 2019 - Dec 2020, Data Scientist
Dec   2020 - June 2022, Lead Data Scientist
June   2022 - Present,   Principal Data Scientist

Started work on our new routing engine, taking the first version from scratch to production in 6 months.

Achieved 10x gain in speed and improved performance metrics over our older engine. This was instrumental in winning clients in North America and SEA.

Grew the software into a last-mile routing suite with a team of Operations Research PhDs and software engineers.

Organized an optimization contest DiscreteHack 2024, writing custom problems and judging code for 400 participants.

University of Cologne / PostDoctoral Researcher

Jan 2014 - April 2019

Invented graphical algorithms to simplify and automate topological computations.

Initiated international collaborations with colleagues, organized seminars and graduate workshops.

Education

University of Illinois at Urbana-Champaign

PhD Theoretical Physics (2013)

Thesis : Defects, topology and the geometric phase in condensed matter physics.

Advisor: Michael Stone.

University of California at Berkeley

BA in Physics and Mathematics (2004)

Other Projects

[Chessputzer](#)

Deep learning based image recognition for printed diagrams of chess positions; robust against blurring and artifacts.

With probabilistic error correction, it performs significantly better than commercial apps on older books.