



Sukrit Mittal, Ph.D.

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I am the Director of AI & Optimization Research at Franklin Templeton, leading a team of data scientists and developers. My work focuses on leveraging advanced AI, including Generative AI and Reinforcement Learning, and optimization techniques to conceptualize and develop innovative financial products. I have close to seven years of research experience in optimization and machine learning, actively collaborating with renowned researchers. Currently, I am applying reinforcement learning methods for solving the goals-based wealth management problem and exploring Generative AI for creating digital twins in financial processes.

EDUCATION

Data Science for Investment Professionals Certificate CFA Institute, USA (Credential)	Jun. 2023 - Jun. 2024
Ph.D. in ML-assisted Optimization Indian Institute of Technology Roorkee, India CGPA : 9.47/10 Thesis: Machine Learning based Enhancements in Evolutionary Multi-objective Optimization (Thesis) Advisors: Prof. Dhish K. Saxena , Prof. Kalyanmoy Deb and Prof. Erik D. Goodman	Jul. 2018 - Aug. 2022
B.Tech. in Mechanical Engineering Indian Institute of Technology Roorkee, India CGPA : 8.38/10	Jul. 2012 - Jun. 2016

RESEARCH/WORK EXPERIENCE [[LinkedIn](#)]

Applied Mathematics International Institute of Information Technology (IIIT) Hyderabad Guest Faculty (Finance)	Dec. 2025 - Present
AI & Digital Transformation Franklin Templeton Investments, Hyderabad, Telangana, India Director, AI & Optimization Research	Jun. 2022 - Present
Computational Optimization and Innovation Laboratory Michigan State University, East Lansing, Michigan, USA Visiting Researcher (invited by Prof. Kalyanmoy Deb)	Feb. 2020 - Jun. 2020

PUBLICATIONS/PATENTS [see complete list [here](#)]

Patent: System and Method for Engine Cylinder Deactivation S. Mittal , S. Manocha, P. Pandey and R. Singh	Granted: 436263
Book: Machine Learning Assisted Evolutionary Multi- and Many-Objective Optimization D.K. Saxena, S. Mittal , K. Deb and E.D. Goodman	Springer 2024 (link)

Working Papers:

A Pre-trained Reinforcement Learning Approach to Goals-Based Wealth Management S. Das, H. Khadilkar, S. Mittal , D. Ostrov, D. Srivastav and H. Wang	[Journal, preprint]
Evolutionary Multi- And Many-objective Optimization: Enhancements using Machine Learning D.K. Saxena, S. Mittal , K. Deb	[Book Chapter, accepted]

Journal Papers:

Interpreting Omega Ratio for Goals Based Wealth Management H. Khadilkar, S. Mittal , S. Gorjala, H. Wang, A. Radhakrishnan and D. Srivastav	JWM 2025 (accepted)
A Unified <i>Innovized</i> Progress Operator for Enhancement in Evolutionary Multi- and Many-objective Optimization S. Mittal , D.K. Saxena, K. Deb and E.D. Goodman	IEEE TEVC 2023 (link)
A Localized High-Fidelity-Dominance based Many-objective Evolutionary Algorithm D.K. Saxena, S. Mittal , S. Kapoor and K. Deb	IEEE TEVC 2022 (link)

Enhanced *Innovized* Progress Operator for Evolutionary Multi- and Many-objective Optimization
S. Mittal, D.K. Saxena, K. Deb and E.D. Goodman IEEE TEVC 2021 ([link](#))

A Learning-based *Innovized* Progress Operator for Faster Convergence in Evolutionary Multi-objective Optimization
S. Mittal, D.K. Saxena, K. Deb and E.D. Goodman ACM TELO 2021 ([link](#))

Social entrepreneurship through forest bioresidue briquetting: An approach to mitigate forest fires in Pine areas of Western Himalaya, India
 K.K. Joshi, V. Sharma and **S. Mittal** Elsevier RSER 2015 ([link](#))

Conference Papers:

Reinforcement learning for Multiple Goals in Goals-Based Wealth Management
 S. Das, **S. Mittal**, D. Ostrov, A. Radhakrishnan, D. Srivastav and H. Wang IEEE AIxB 2024 ([link](#))

Embedding a Repair Operator in Evolutionary Single- and Multi-objective Algorithms
 K. Deb, **S. Mittal**, D.K. Saxena and E.D. Goodman EMO 2021 ([link](#))

A Unified Automated *Innovization* Framework Using Threshold-based Clustering
S. Mittal, D.K. Saxena and K. Deb IEEE CEC 2020 ([link](#))

A Generic and Computationally Efficient Automated *Innovization* Method for Power-Law Design Rules
 K. Garg, A. Mukherjee, **S. Mittal**, D.K. Saxena and K. Deb ACM GECCO 2020 ([link](#))

Learning-based Multi-objective Optimization Through ANN-Assisted Online *Innovization*
S. Mittal, D.K. Saxena and K. Deb ACM GECCO 2020 ([link](#))

PROJECTS

INNOVIZATION: Discovery of Innovative Knowledge through Optimization & ML Mar. 2019 - Sep. 2023
 Funding agency: [SPARC](#), Ministry of Education, Govt. of India
 Role: Core contributor as student researcher ([project outcome](#))

HIGHLIGHTS

[Keynote]: School of Artificial Intelligence & Data Science – IIT Jodhpur Feb. 2026

[Lecturer]: ACM Winter School 2025 (AI & Finance) – IIIT Hyderabad Dec. 2025

[Tutorial]: ACM Genetic & Evolutionary Computation Conference – GECCO’25 (Málaga, Spain) Jul. 2025

[Tutorial]: IEEE Congress on Evolutionary Computation – CEC’25 (Hangzhou, China) Jun. 2025

[Keynote]: Global Analytics Summit 2024 – AI in Finance (UT Austin, Texas, USA) Nov. 2024

[Talk]: JOIM Fall Conference – AI in Finance (MIT, Boston, USA) Oct. 2024

[Invited speaker]: Mahindra Technical Academy (Chennai, India) Dec. 2019

[Judge]: BAJA-SAE (Indore, India) Feb. 2019

[Award]: Best Graduate Engineer Trainee (Mahindra Research Valley) Aug. 2017

[Reviewer]: ACM KDD 2024, IEEE CAI 2024, IEEE CEC 2023, IEEE SSCI 2022, IEEE CEC 2022.