

Abhishek Dubey

Research Statement

My research focuses on developing AI and machine learning methods for decision-making in large-scale cyber-physical systems. Rather than working on abstract problems, I believe in conducting research that translates to real-world impact through deployments in transit systems, energy infrastructure, and emergency response.

Key Research Areas

- Robust online learning and decision-making under uncertainty
- AI-driven optimization for resource allocation and scheduling
- Design and deployment of cyber-physical systems for societal applications
- Fairness and equity in algorithmic decision-making

Impact

- 261+ peer-reviewed publications with h-index 40 and 6000+ citations
- 69.1 million dollars in funded research
- 3 commercial deployments impacting thousands of users daily