



Certificate of Participation

This certifies that

Nuraly Astanakulov

has participated in the **Causal Machine Learning Hackathon**
organized by Constructor University in partnership with
BMW Group, held from November 29 to December 1, 2024.

Congratulations and thank you for participating in our hackathon!

Bremen, December 1, 2024

Dr. Ishansh Gupta
Lead Data Scientist,
BMW Group

Louis Heublein
Data Scientist,
BMW Group

Prof. Dr.-Ing. Hendro Wicaksono
Head of Data-Driven Collaborative
Decision Making in Complex
Industrial Systems Research Group,
Constructor University

Ivan Lukovnikov
VP Tech Transfer and
Innovation,
Constructor University