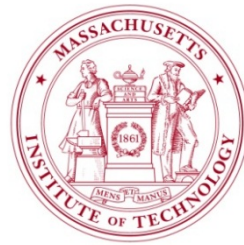


Massachusetts Institute of Technology

This is to certify that

Frank Horwitz



has successfully completed

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Bhaskar Pant
Executive Director
MIT Professional Education



Daniela Rus
Professor & Director
MIT Computer Science and
Artificial Intelligence Laboratory



Sam Madden
Professor & Director, Big Data Initiative,
MIT Computer Science and
Artificial Intelligence Laboratory