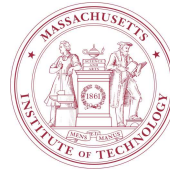




Massachusetts Institute of Technology

*This is to certify that*

**Jemma Allen**



*has successfully completed*

**Cybersecurity: Technology, Application and  
Policy**

October 11 - November 22, 2016

A handwritten signature in black ink, reading "Bhaskar Pant".

---

**Bhaskar Pant**  
Executive Director  
MIT Professional Education

A handwritten signature in black ink, reading "Daniela Rus".

---

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

A handwritten signature in black ink, reading "Howard Shrobe".

---

**Howard Shrobe**  
Professor & Director of Cybersecurity  
MIT Computer Science & Artificial Intelligence Laboratory