

**TERMS & CONDITIONS
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CMU PORTUGAL ACADEMY ONLINE MASTERCLASSES**

“ENHANCING HUMAN-AI DECISION-MAKING WITH VISUALIZATION”

PRESENTED BY: Adam Perer, Assistant Professor, Carnegie Mellon University, Human-Computer Interaction Institute

ABSTRACT: Emerging datasets and AI algorithms present an opportunity to augment domain experts when making high-stakes decisions. However, there are many examples, from healthcare to social services, where such technology fails to lead to better decisions. In this talk, I will showcase how effective data visualization can provide an important lens to promote the alignment of decision-makers and algorithms for human-AI decision-making. I will begin by introducing several tools built within my Data Interaction Group to support model developers and data scientists when ensuring models behave as experts expect. Then, I will focus on a particular high-stakes decision-making use case: an AI system to assist with sepsis, a life-threatening condition in which decisional uncertainty is common, treatment practices vary widely, and poor outcomes can occur even with optimal decisions. I will then reflect on future research directions for improving human-AI collaboration in decision-making.

BIO: Adam Perer is an Assistant Professor at Carnegie Mellon University, where he is a member of the Human-Computer Interaction Institute and co-directs the Data Interaction Group. His research integrates data visualization and machine learning techniques to create interactive visual systems that help users make sense of big data. Lately, his research has focused on human-centered data science and extracting insights from clinical data to support data-driven medicine. This work has been published at premier venues in visualization, human-computer interaction, and medical informatics. He holds a Ph.D. in Computer Science from the University of Maryland, College Park.

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If you have any questions about these Terms & Conditions or the event itself, please contact the event organizer at CMU Portugal Academy through this e-mail info@academy.cmuportugal.org.

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Applicants must also expressly authorize UNIVERSIA HOLDING, S.L., to collect, register, and process their data for these purposes, and share it with Santander Foundation Portugal and CMU Portugal (e.g., name, email).

Privacy and Personal Data Processing Policies can be viewed at https://www.santanderopenacademy.com/pt_pt/legal/privacy.html.

12.1. Personal Data Processing by Santander Foundation Portugal and CMU Portugal Academy

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- a) Santander Foundation Portugal, based at Rua Áurea, n.º 88, 1100-06 Lisbon;
- b) CMU Portugal Academy, based at Beato Innovation District | Factory Lisbon, Rua da Manutenção 71, Edifício F. 1900-500 Lisboa.

12.1.2. Data Processed

The controllers listed in 12.1.1 process the following personal data of applicants:

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- b) CMU Portugal Academy: Identification data (surname, name, date and place of birth, etc.), contact information (email, phone), emergency contact, test results.

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The personal data identified above will be processed for the following purposes and on the topics indicated below:

- a) Santander Foundation Portugal: for the purposes of the application, based on the execution of the contract in question (the present Regulation) which can be found on the platform: <https://www.santanderopenacademy.com/pt>;
- b) For the purposes of sharing data with CMU Portugal Academy, based on their prior consent, which must be granted on the application platform, accessible at <https://www.santanderopenacademy.com/pt>.

12.1.4. Personal data may be shared, when legally permissible, with subcontracted entities to provide services to Santander Foundation.

12.1.5. Data Retention Period:

- a) Foundation: Personal data collected and processed by Santander Foundation will be retained as necessary for the stated purposes and then deleted within 12 months from collection, or longer if required by law or regulation, or to safeguard rights, particularly in legal proceedings;
- b) CMU Portugal Academy: Personal data collected and processed by CMU Portugal Academy will be retained only as necessary for the relevant processing purposes. This period varies based on data type and purpose. For admission test data (name, birthdate, etc.), data is retained for 3 years or deleted weekly if tests were not passed.

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- a) Data subjects have the right to access their data, correct it, request portability, and, where permitted by law, the right to object to processing, limit processing, and delete data via a signed written request;
- b) Data subjects may file complaints regarding non-compliance by data controllers to the National Data Protection Commission (www.cnpd.pt).

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- a) Foundation: privacidade.fundacao@santander.pt;
- b) CMU Portugal Academy: info@academy.cmuportugal.org.

For any clarification regarding the Program, please contact: info@academy.cmuportugal.org.

Enrollment in the Program implies full and unconditional acceptance of these Terms and Conditions.

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