Mapping the Issue: Using Machine Learning for University Admission

:	Omri Niri, O.NardiNiri@student.tudelft.nl
isor:	Dr. Evgeni Aizenberg
nsible Prof.:	Prof.Dr.Ir Inald Lagendijk
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Goal:To formulate guidelines for a bias-aware admission procedure, for academia, using artificial-intelligence.Method:A qualitative review of the admission process, drawing from Socio-Technical methodologies.

Is there a problem at all?

★ University of Texas, USA, 2013-2020:
"Using AI to determine which researchers to recruit" ↓
The system, called GRADE, only exacerbated existing

bias and inequality.

UK during Covid-19, 2020:
"No school? Let's predict grades using AI."

Grades were biased, based on the school which students came from, rather than being derived from their own achievements.





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Recommendations for integrating AI in admission- an iterative process:

Conceptual investigation

Stakeholders:

- Applicants
- Admission staff
- Administration

Values:

- Fairness
- Transparency
- Scientific progress

Empirical investigation

Iteratively engage with stakeholders, review

system versions.





Which solution best solves the technical problem, while adhering to the social values?