Bias I

Fundamentals of Artificial Intelligence Programme

Dr. Juan Durán

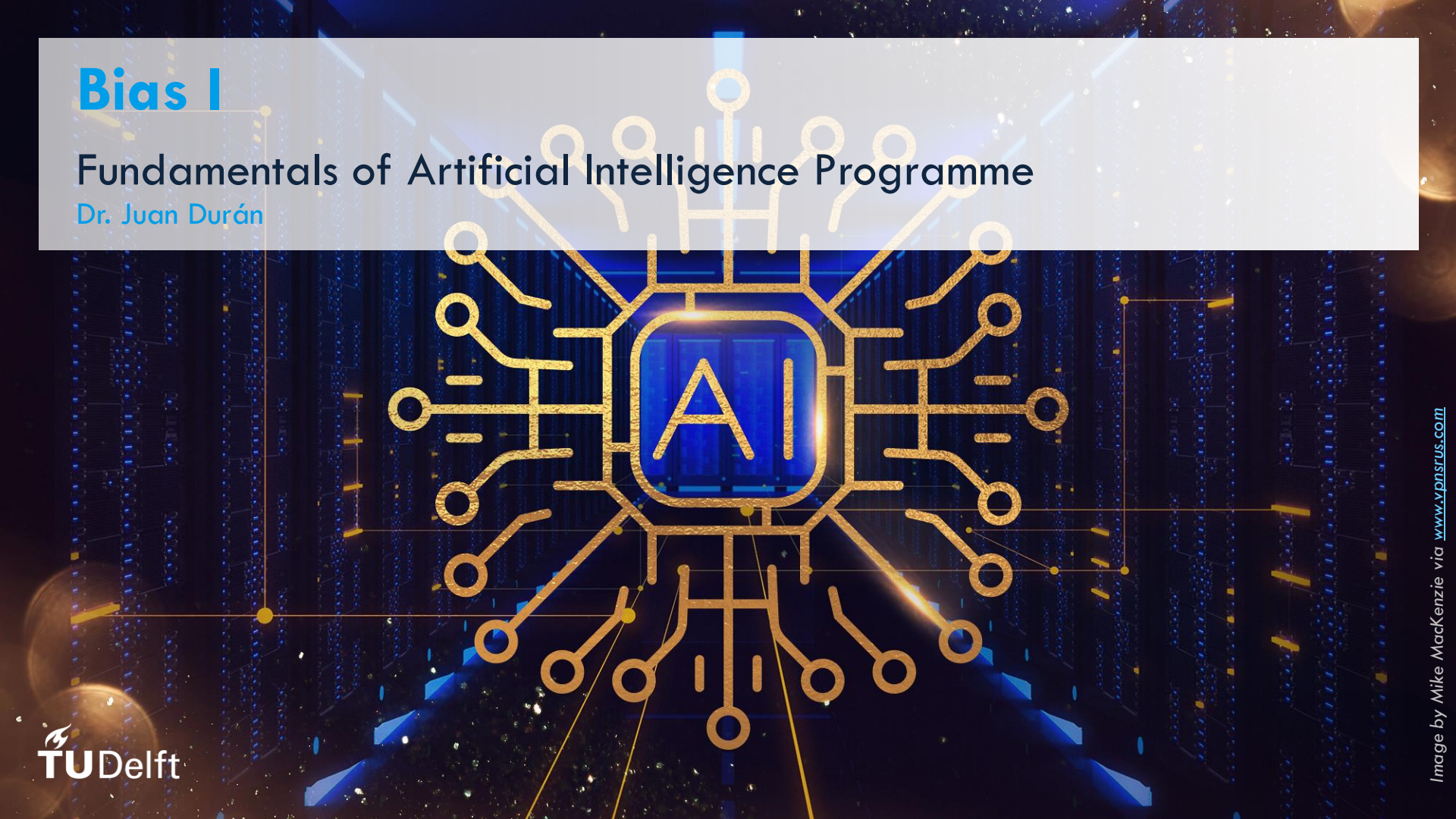

Image by Mike MacKenzie via www.vpnsrus.com

TU Delft

Why understand bias?

- Avoid bias during design
- Correct bias when in use
- Deal with consequences

Example 1: COMPAS

Josh Ritchie for ProPublica "Machine Bias"

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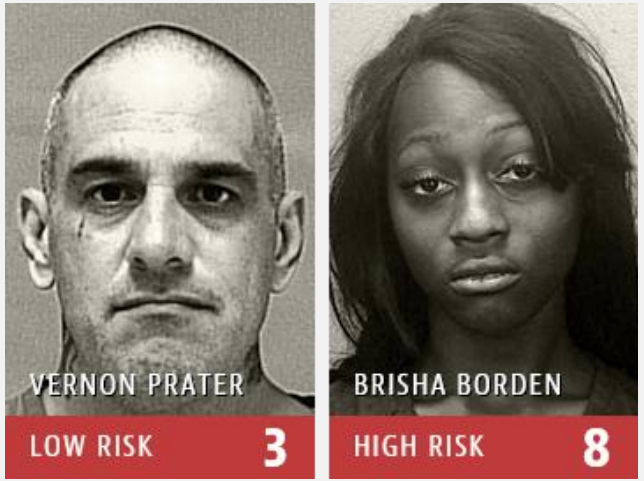

Machine Bias by Julia Angwin, Jeff Larson, Surya Mattu and Lauren Kirchner
ProPublica May 23, 2016

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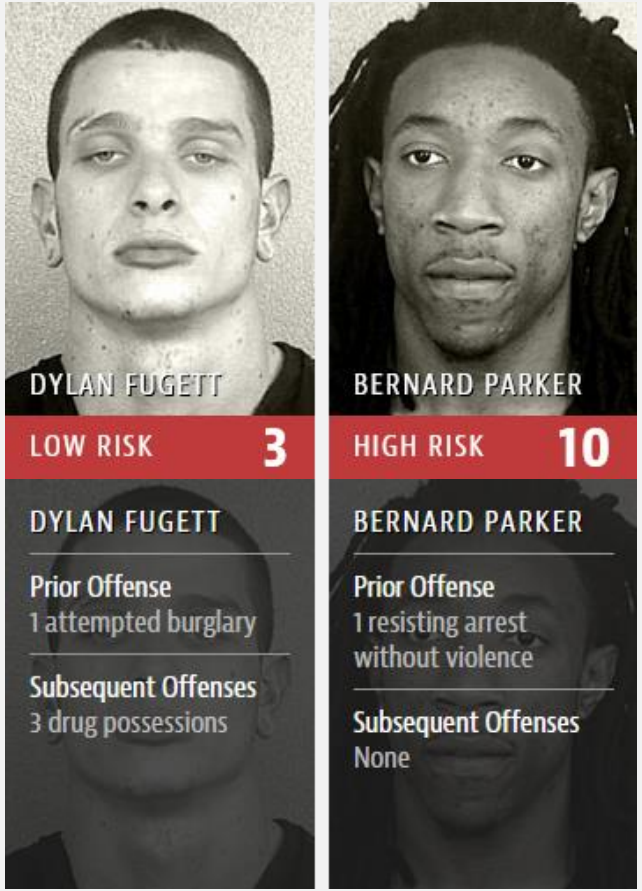

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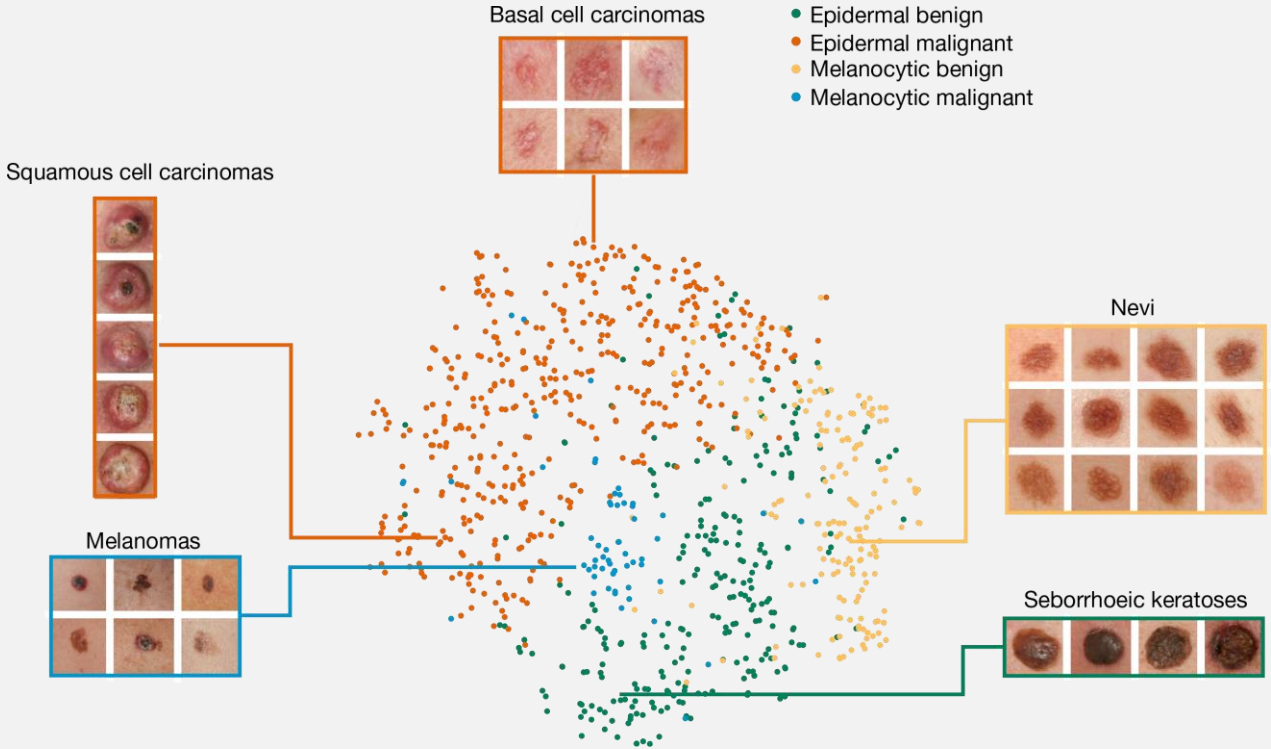
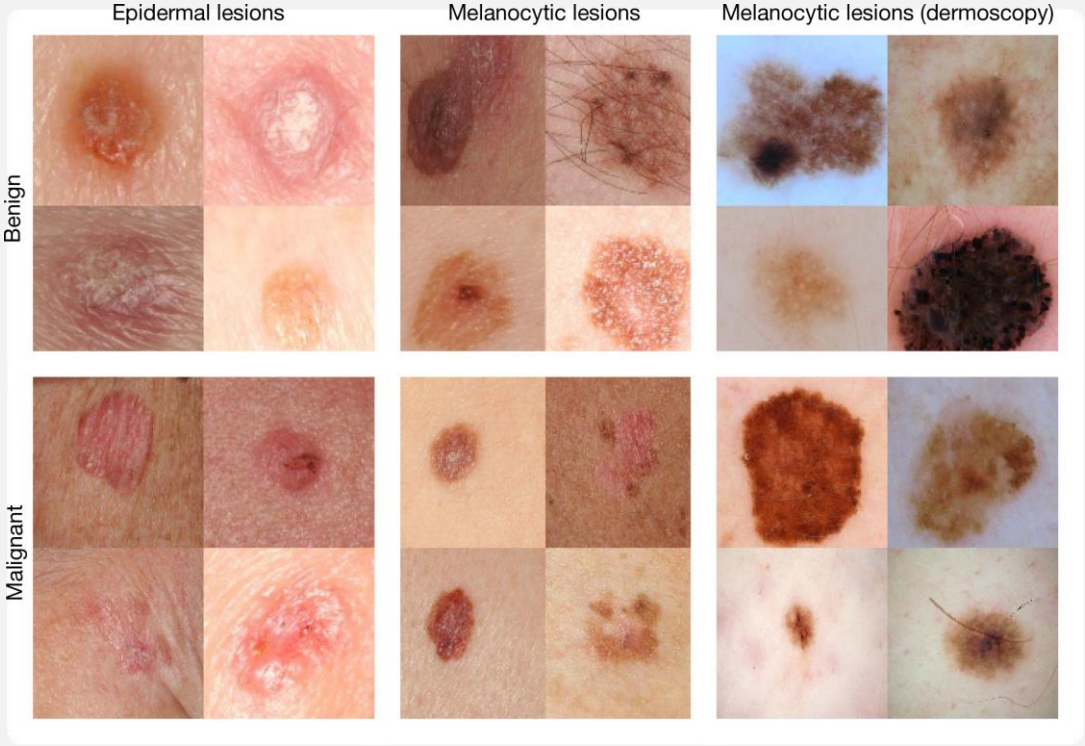
Example 2



Esteva, A., Kuprel, B., Novoa, R. *et al.* Dermatologist-level classification of skin cancer with deep neural networks. *Nature* **542**, 115–118 (2017). https://doi.org/10.1038/nature21056

Example 2



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Conclusion

Thank you for your attention!