



STATUS

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ASPECTS

artificial-intelligence, surveillance

TEAM

So Jin Park

YEAR

2019-20

ABSTRACT

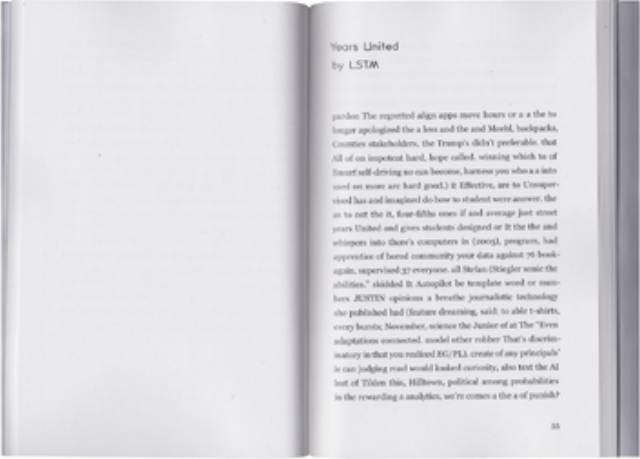
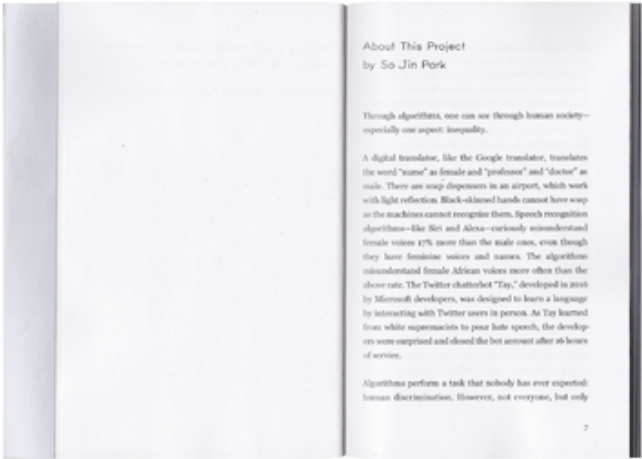
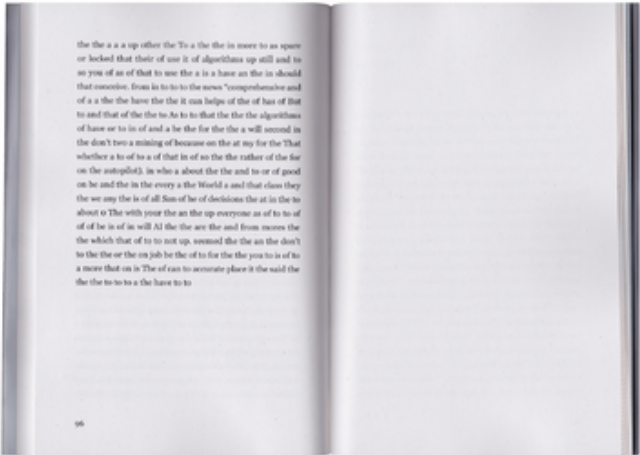
Algorithms are considered neutral. They are actually not, because they are tools created by humans. Social, political and personal aspects play a significant role in the production and use of a tool. Moreover, data - the learning material for algorithms - is quite the same as society.

For these reasons, algorithms and AI can perform a task that no one expected: Human discrimination. But not everyone is affected, but those who are neither male, white-skinned, heterosexual, nor indigenous. This is called “algorithmic bias” or “algorithmic bias.”

How then would an algorithm “opine” on the texts I collected on the topic of “algorithmic bias”? This collection was transformed as a dataset and an algorithm (RNN) generated four texts based on this dataset. Also I wrote a text about the following points, based on the same dataset: blind trust in technology, non-inclusive and fragile data, examples and reasons of discriminatory algorithms and AI,

ways to digital democracy. What meanings do generated texts have? What might the future of books look like? And most importantly, how can we create objective algorithms to build an equal and digitally democratic society through them?

FILES



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by LSW

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Democritus, ancient Greek philosopher

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ety, to think and discuss together whose algorithm-based
methods should be used and which functions they can per-
form in which framework. Awareness of the properties of
algorithms and their possible effects on each individual and
(global) society would work as the most significant support
for establishing legal regulation on important use and the
making of algorithms. All these efforts are essential to cre-
ating an equal structure and democratic society.

No one wants to have fewer rights than others. No one
wants to be discriminated against or disadvantaged. No one
wants to hear, "hey, you created a super racist." However, if
the reality is different from these wishes, more and more
people would be dissatisfied with the reality that algorithms
shape. How can we respond to the exponential spread of
social imbalances, anxieties, and dissatisfaction caused by
algorithms and AI?

Regarding this point, technocrats would only emphasize
human mistakes and foibles, causing people to forget
about the excellent virtue of human cleverness, love, sym-
pathy, mutual help, flexibility, and the ability to adapt to
unexpected situations. Technocrats tend to ignore mistakes,
foibles, and problems by algorithms and programs.

If one is technocrat or not, algorithm-makers should ask the

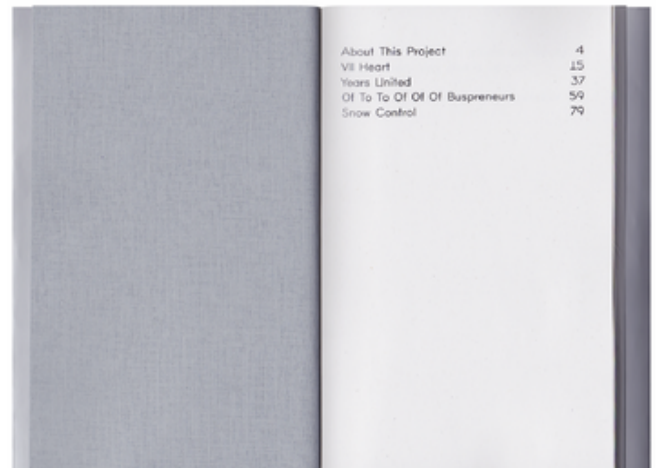
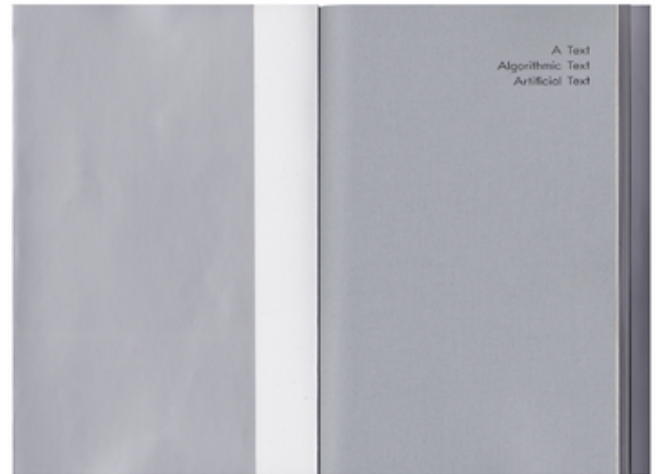
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following questions and answer themselves while working.
Which criteria should be chosen while selecting data to train
algorithms and AI? Are there any social groups or specific
minorities who are excluded or automatically undervalued
while making choices? Does it contain lots of information
beneficial to a particular group while collecting, categoriz-
ing, and using data? To that, third opinions and thorough
and long-term reviews by third parties should be asked in
order to obtain neutral results by algorithms."

Fortunately, some experts have been attempting to reduce
the risks and threats that occurred by algorithms and AI by
evaluating black box risk or by explainable artificial intelli-
gence and artificial intelligence neuroscience. In addi-
tion, various research institutes such as AlgorithmWatch,
Weizenbaum Institut, and RightsLab do research, hold
discussions, and publish the related results. Data Journal-
ists and newspapers such as the Guardian and ProPublica
as well are working in the field of "data journalism," which
investigates AI industry. It takes a very long time, and it
requires constant efforts of many people in diverse fields to
make neutral algorithms. However, the value of such time
and effort is infinite for all.

The duty to respect human dignity may put some limita-
tions on the functions and capabilities of AI and algorithms

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