
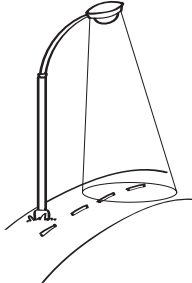
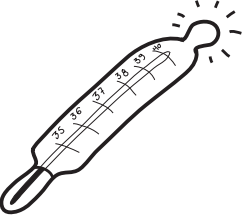
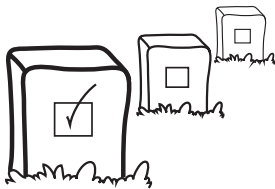


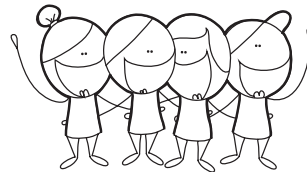
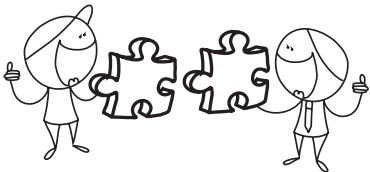

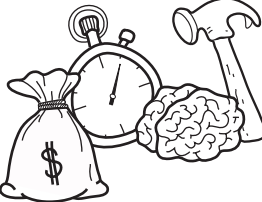




Project name

Fairness in classification

Project owner

<div><div>Purpose</div><div>What is the intent of this project? Why are we doing this project?</div><div><p>This project will investigate what it means to have bias in data and how it may affect the algorithms we use to help with decision making, likewise to distinguish between good and bad bias. Additionally, we want to implement a classifier to beable to understand what exactly is going wrong when we use an algorithm to assess and generate risk scores, as well as validating. Lastly we want to have an in depth discussion and ethical considerations of using such technology and what it inherently means that we as a society sentence people to years in prison</p></div><div></div></div>	<div><div>Scope</div><div>What does this project contain? What does this project not contain?</div><div><p>Project contains:</p><ul style="list-style-type: none">- Description of data- Statistical analysis of data- Implementation of a classification algorithm on the COMPAS dataset- Manipulation of attribute values to document bias- Possible bias adjustments of the classifier- Ethical discussion on the use of COMPAS</div><div></div></div>		<div><div>Success Criteria</div><div>What do we need to achieve in order for the project to be successful? How can the Success Criteria be measured?</div><div></div></div>
<div><div>Milestones</div><div>When will we start the project and when is the final deadline ? What are the key milestones and when will they occur? How can the milestones be measured?</div><div></div><div><p>Project start: 26th of february Final deadline: Midle of june</p></div><div><p>Milestones</p><p>06.03: Found and read a decent amount of relevant literature. 11.03: Understand the data (feature, structure etc.). 18.03: Hand-in method, introduction, data description. 06.04: Started finding possible bias in own data using statistics. 13.04: Started implementing adjustments in model to remove bias. 06.06: Implementation work mostly done. 18.06: Discussion, method and analysis done.</p></div></div>			
<div><div>Actions</div><div>Which activities need to be executed in order to reach a certain milestone?</div><div></div><div><p>Find articles: Search on google, Findit, google scolar Decide which statistics to compute Write python code in order to:</p><ul style="list-style-type: none">- Import data- Write a neural network- Statistics analysis: Confusion matrix etc.</div><div><p>1. To train a classifer on the COMPAS data, and complete an investigation on whether or not the data contains bias, and how the bias influences our classifier. 2. Adjust classifier to reduce bias. 3. A discussion which contains multiple opinions and view points.</p></div><div><div><div>Outcome</div><div>What is the end result?</div><div></div><div><p>- A book - A website - An event</p><p>Report Presentation Pitch Obtain knowledge</p></div></div></div></div>			
<div><div>Team</div><div>Who are the team members? What are their roles in the project?</div><div></div><div><p>Sunniva Olsrud Punsvik: Investigator Rasmus Stokholm Bryld: Investigator Matilde Maria de Place: Investigator</p></div></div>	<div><div>Stakeholders</div><div>Who has an interest in the success of the project? In what way are they involved in the project?</div><div></div><div><p>Aasa Feragen Sune Hannibal Holm Melanie Ganz Morten Mørup</p></div></div>		<div><div>Users</div><div>Who will benefit from the outcome of the project?</div><div></div><div><p>Society Data analysts Aasa Feragen Sune Hannibal Holm Melanie Ganz</p></div></div>
<div><div>Resources</div><div>What resources do we need in the project?</div><div></div><div><p>- Physical (office, building, server) - Financial (money) - Human (time, knowledge)</p><p>DTU's supercomputer Aasa Feragen (supervisor) Morten Mørup Overleaf Python 13 weeks + 3 weeks</p></div></div>	<div><div>Constraints</div><div>What are the known limitations of the project?</div><div></div><div><p>Time constraint: We only have limited time, and we have other projects. Knowledge of some of the needed libraries in python Programming and philosophy experience</p></div></div>		<div><div>Risks</div><div>Which risks may occur during the project? How do we treat these risks?</div><div></div><div><p>Subjective discussion What bias in data means, could be different from person to person Some might mean, that the bias we remove, is not bias.</p></div></div>