

UX TASK 3.0

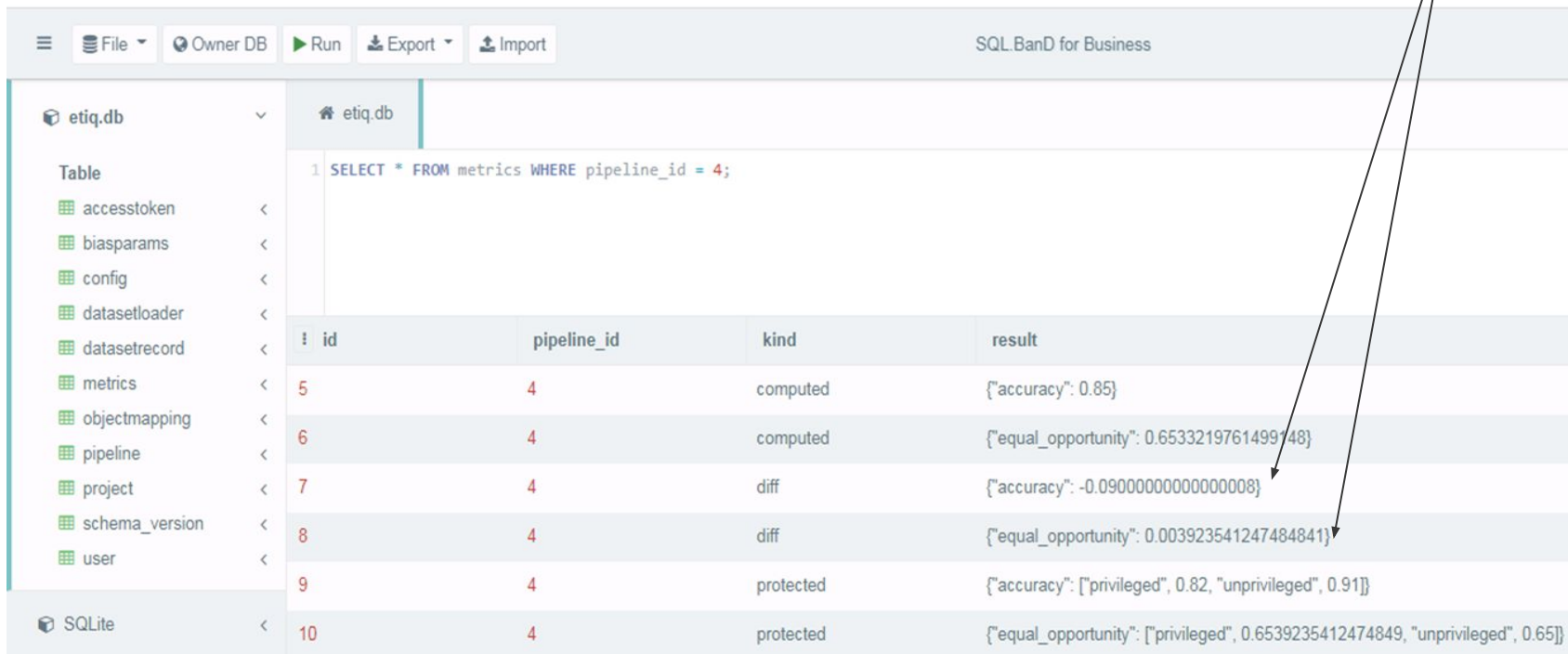
- Faisal Aljaghtami

INTRODUCTION

Following your guidance and your feedback on the previous prototypes, and after watching the “Weights & Biases Demo” video, I wanted to make this prototype as easy to understand and as simple as possible.

The only thing I have struggled with is that I couldn't tell the relations between pipelines in the database file. -I couldn't tell which is Pipeline (Before) and Pipeline repair (After)-

I ASSUMED THESE WERE THE "REPAIR" (AFTER)



etiq.db

Table

- accesstoken
- biasparams
- config
- datasetloader
- datasetrecord
- metrics
- objectmapping
- pipeline
- project
- schema_version
- user

SQLite

SQL Band for Business

1 SELECT * FROM metrics WHERE pipeline_id = 4;

id	pipeline_id	kind	result
5	4	computed	{"accuracy": 0.85}
6	4	computed	{"equal_opportunity": 0.6533219761499748}
7	4	diff	{"accuracy": -0.09000000000000008}
8	4	diff	{"equal_opportunity": 0.003923541247484841}
9	4	protected	{"accuracy": [{"privileged", 0.82, "unprivileged", 0.91}]}
10	4	protected	{"equal_opportunity": [{"privileged", 0.6539235412474849, "unprivileged", 0.65}]}



THE QUESTIONS THE USER WOULD WANT ANSWERED AS THEY NAVIGATE THE INTERFACE ARE:

- 1- WHICH IS THE BEST PIPELINE - ACCORDING TO A METRIC OR A COMBINATION OF METRICS
- 2- HOW DOES FIXING ISSUES IMPROVES MY PIPELINES? IMAGINE SOME OF THE DATA IS DARAPIPELINE1, REPAIRPIPELINE1
- 3- IF I HAVE DIFFERENT DEMOGRAPHICS HOW CAN I TELL WHICH PIPELINE IS BEST FOR ALL OF THEM
- 4- IF I HAVE METRICS MOVING IN DIFFERENT DIRECTIONS WHAT'S A GOOD VISUALIZATION FOR THAT, E.G. IF ACCURACY GETS HIGHER EQUAL OPPORTUNITY GETS LOWER, ETC.

Project 1

Overview

Data Pipelines

Debias Pipelines

Project 1 / Data Pipelines

Data Overview

Pipeline ID	Kind	Accuracy	Equal Opportunity	Start Date	Finish Date
1	Computed	86%	14%	03/03/12 22:43	01/22/15 17:15
4	Computed	85%	65%	01/28/19 14:11	12/23/16 09:33

Pipeline ID

- 1 Accuracy: 86% Equal Opportunity: 14%
- 4 Accuracy: 85% Equal Opportunity: 65%
- 6 Accuracy: 86% Equal Opportunity: 0.39%

Accuracy:



Equal Opportunity:



Pipeline Comparison:



Results:

Best Accuracy

Pipeline ID: 1

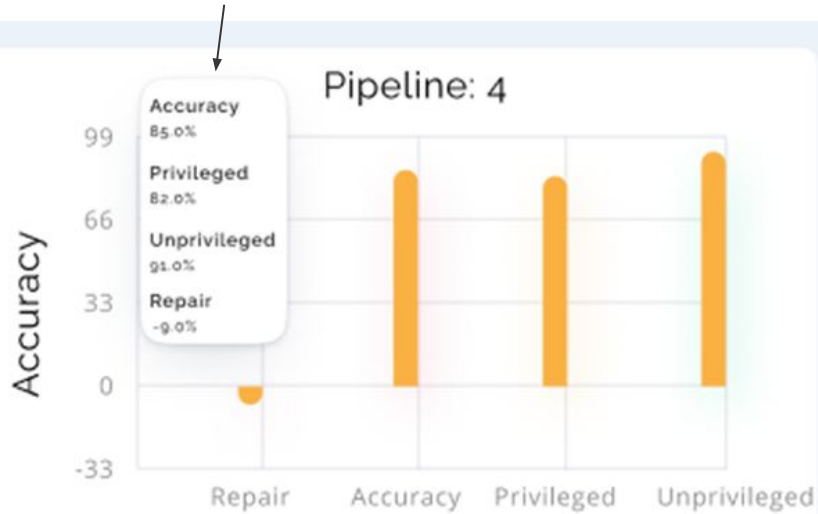
Best Equal Opportunity

Pipeline ID: 1



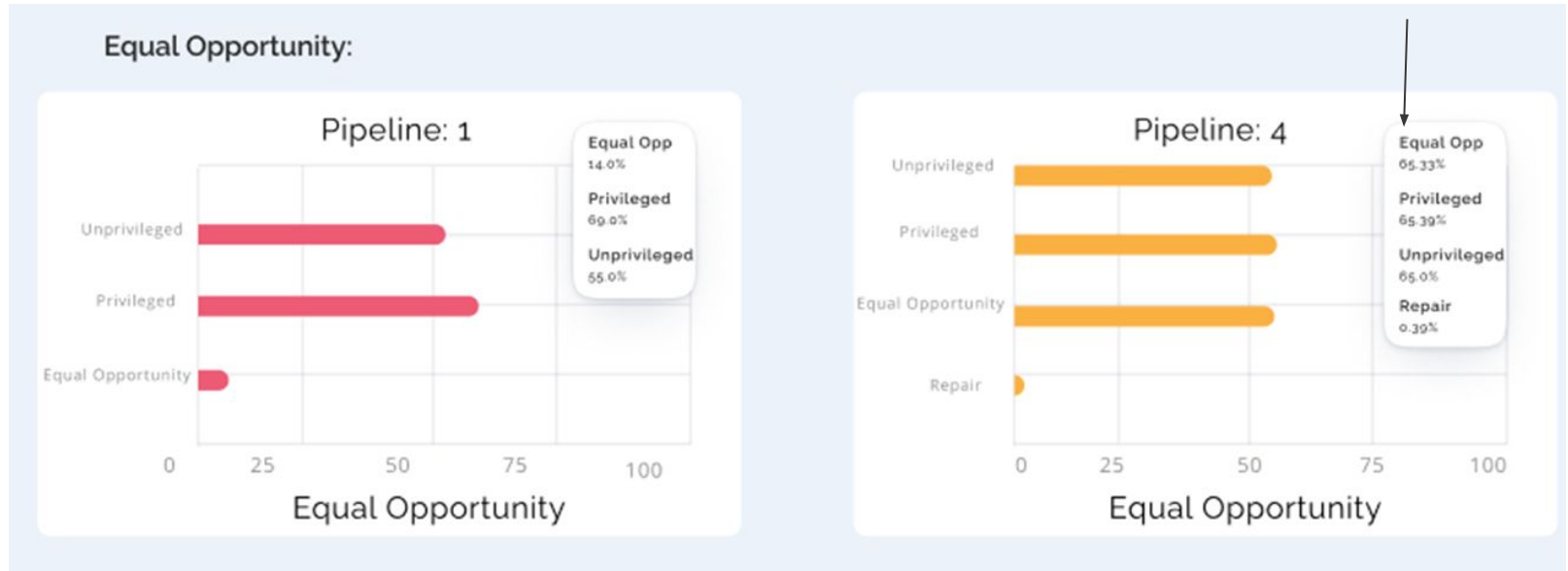
IF I HAVE METRICS MOVING IN DIFFERENT DIRECTIONS WHAT'S A GOOD VISUALIZATION FOR THAT,

A small window that shows the details



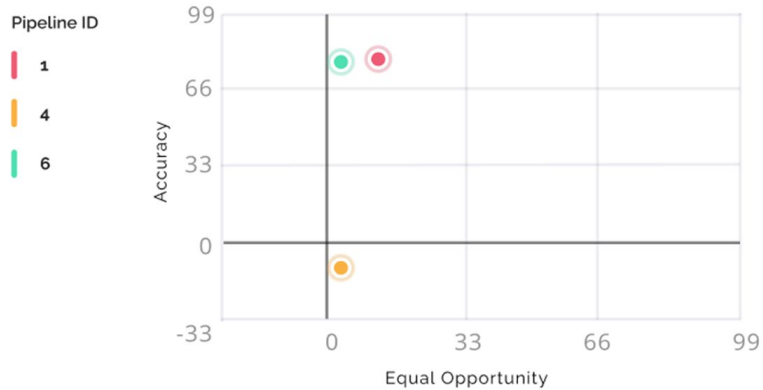
HOW DOES FIXING ISSUES IMPROVES MY PIPELINES? IMAGINE SOME OF THE DATA IS DARAPIPELINE1,
REPAIRPIPELINE1

A small window that
shows the details



WHICH IS THE BEST PIPELINE - ACCORDING TO A METRIC OR A COMBINATION OF METRICS

Pipeline Comparison:



Results:

Best Accuracy

Pipeline ID: 1



Best Equal Opportunity

Pipeline ID: 1

