

A photograph of three young girls in a starting crouch on a blue running track. The girl in the foreground is wearing a red and white striped shirt and pink leggings. The girl in the middle is wearing a green and white checkered shirt. The girl in the background is wearing a green shirt. They are all looking towards the camera with smiles. A large dark grey hexagonal overlay is on the left side of the image, containing text.

StartVaardig

Motoric skills development

Lisa Dumaij 19049838

Yuliya Litvin 20161417

Mustafa Mousa 18068987

Pascal Seegers 21132844

Joost van Viegen 18048757

Joep van der Zanden 19134282

Gross Motoric Skills



Gross Motoric Skills



01 StartVaardig

Started in 2019

Providing tools

Value of motoric skills



01.1 Measurements & Tests

Competence

Motivation

Perception

BMI

Questionnaires

02 Goal

“How can data science be used to predict whether a child has a chance of developing a lack in motor skills a year later?”

03 Progress

Receiving

Exploring

Comparing

Merging

Preparing/Cleaning

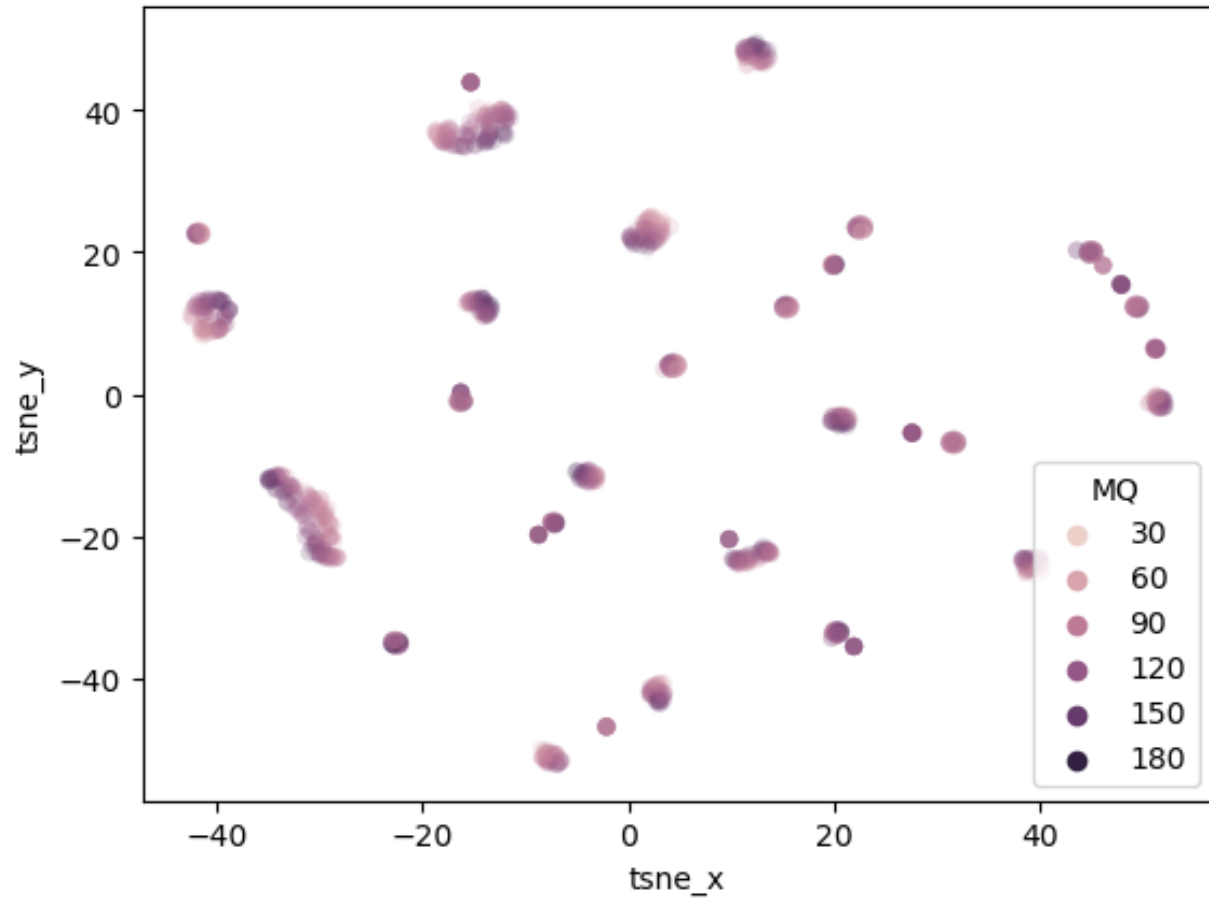
03 Progress

High dimension visualizations

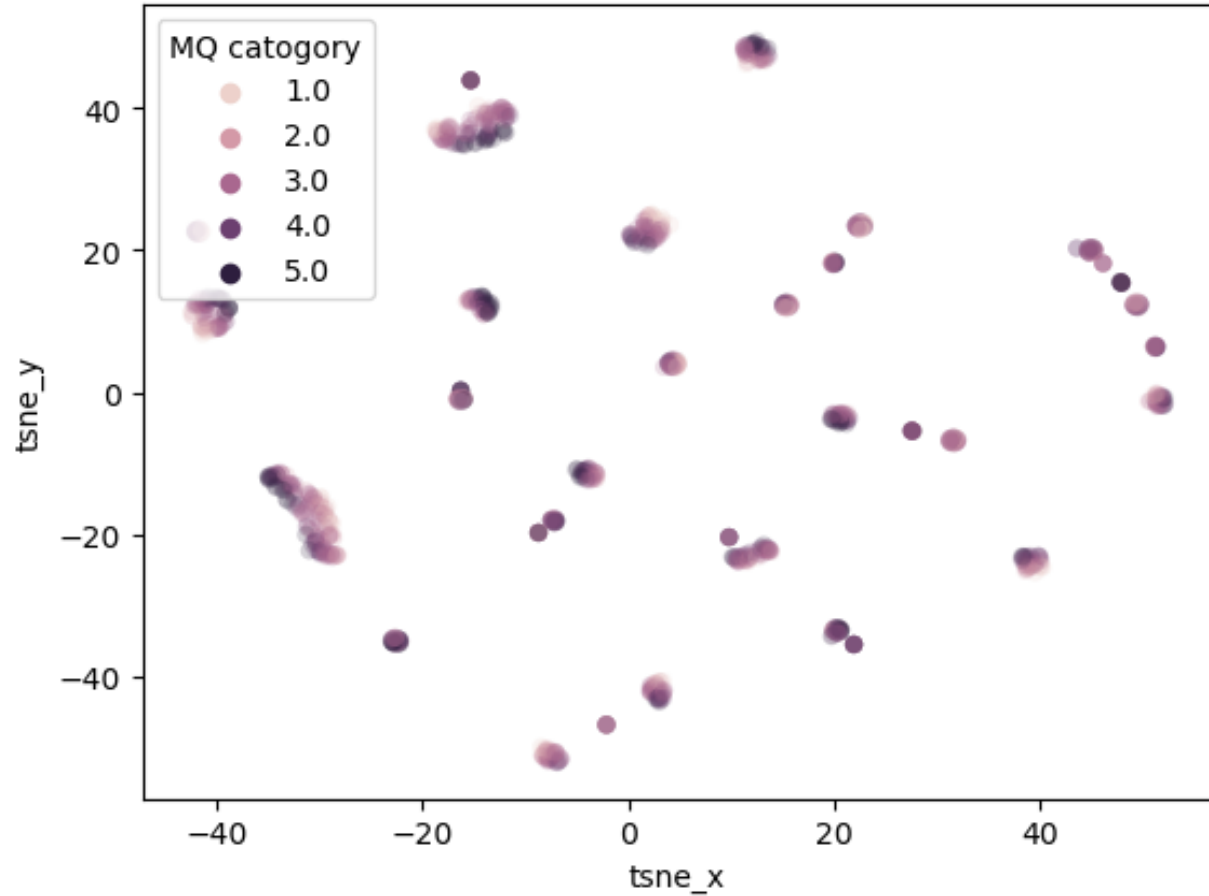
Evaluation plan

Prediction models

03.1 t-SNE

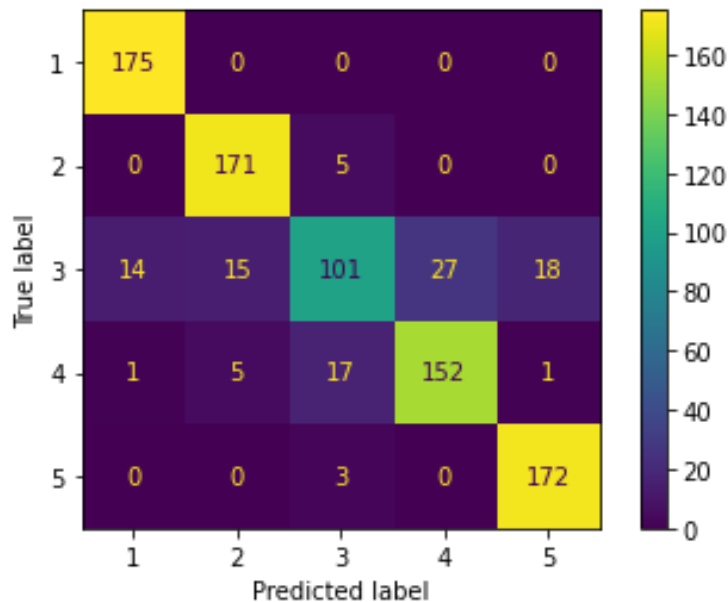


1. T-SNE (t_0) with colored dots based on the MQ score

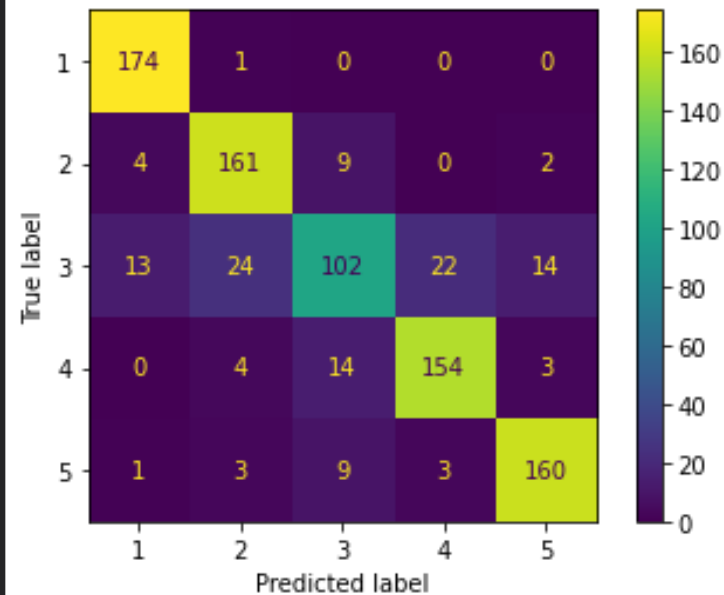


2. T-SNE (tO) with colored dots based on the MQ category

03.2 Evaluation Plan

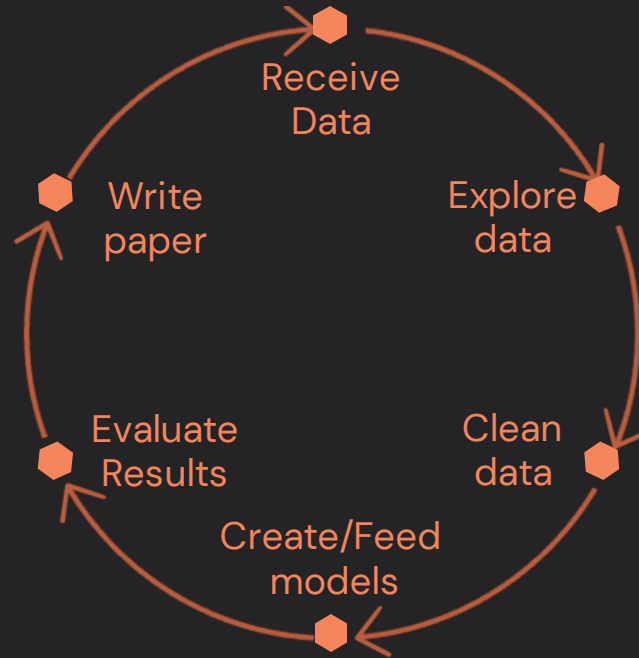


3.1 Confusion matrix from model with 2 split



3.2 Confusion matrix from model with 3 split

04 Next steps





THANK YOU!

Do you have any questions?

Lisa Dumaij
19049838@student.hhs.nl