



Riiid AI Tutor

Student Performance Predictions

Sindhu Ravikumar

Issues in Education

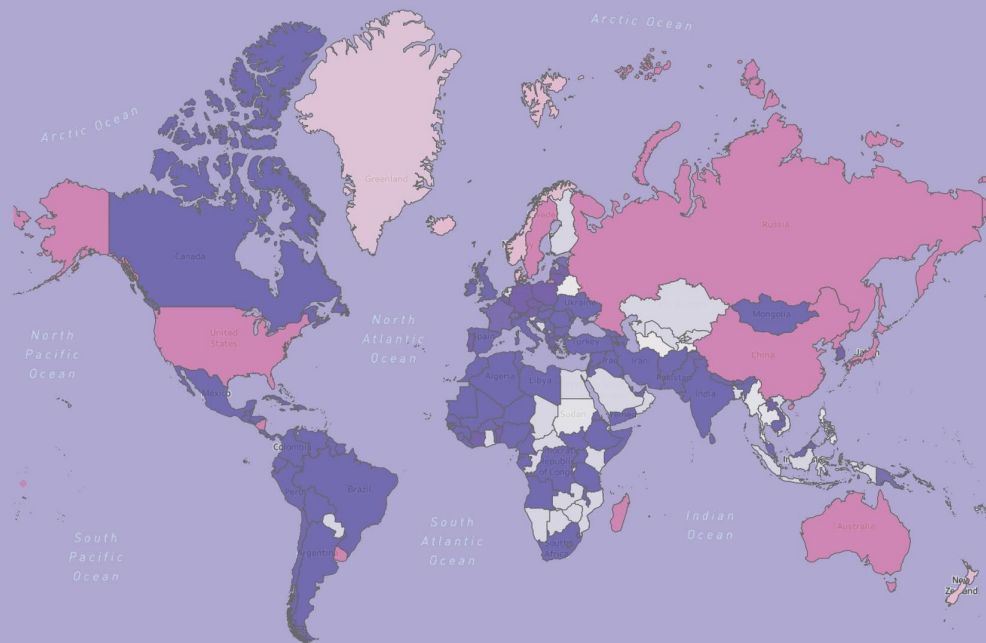
In 2018, 260 million children were not attending school

Over half of young students around the globe did not meet minimum reading and math standards



School Closure Due to COVID-19

May 2020



Status

- Academic break
- Closed due to COVID-19
- Fully open
- Partially open

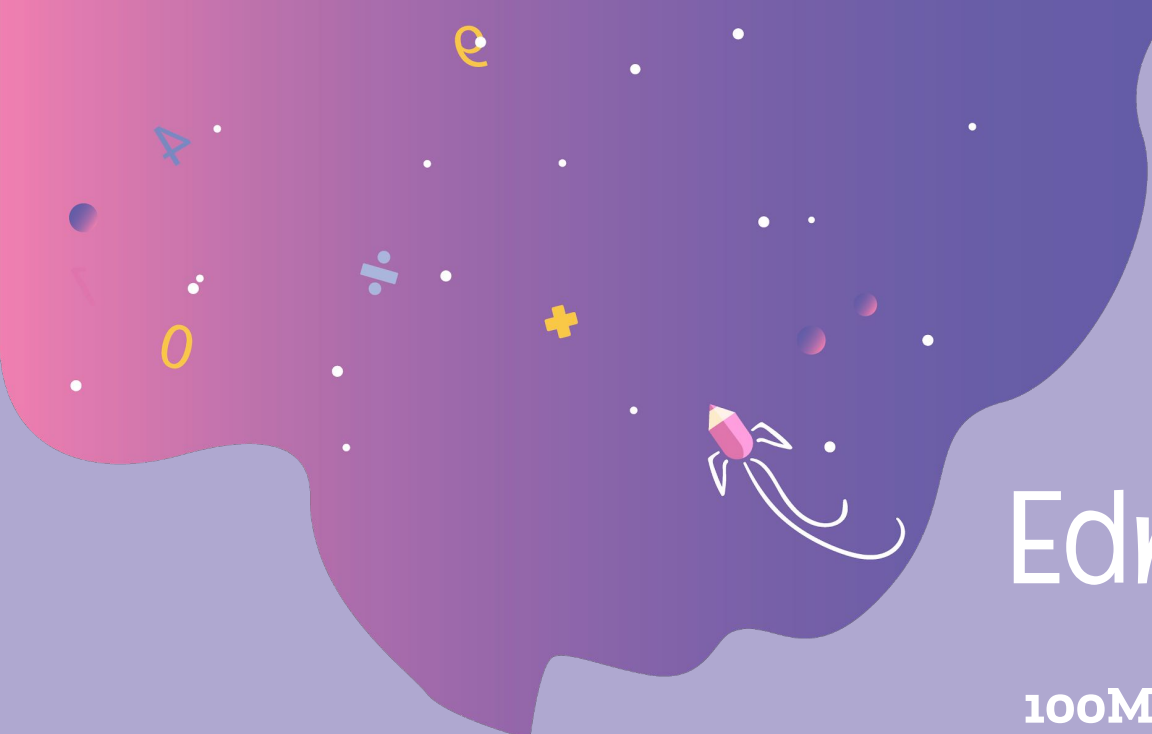
© 2020 Mapbox © OpenStreetMap

Map based on Longitude (generated) and Latitude (generated). Color shows details about Status. Details are shown for Country. The data is filtered on Date Month, which keeps May.

Education with AI

- Artificial Intelligence can change the current education system
- Attendance, engagement, individualized attention
- Equal opportunity in education to anyone with an internet connection





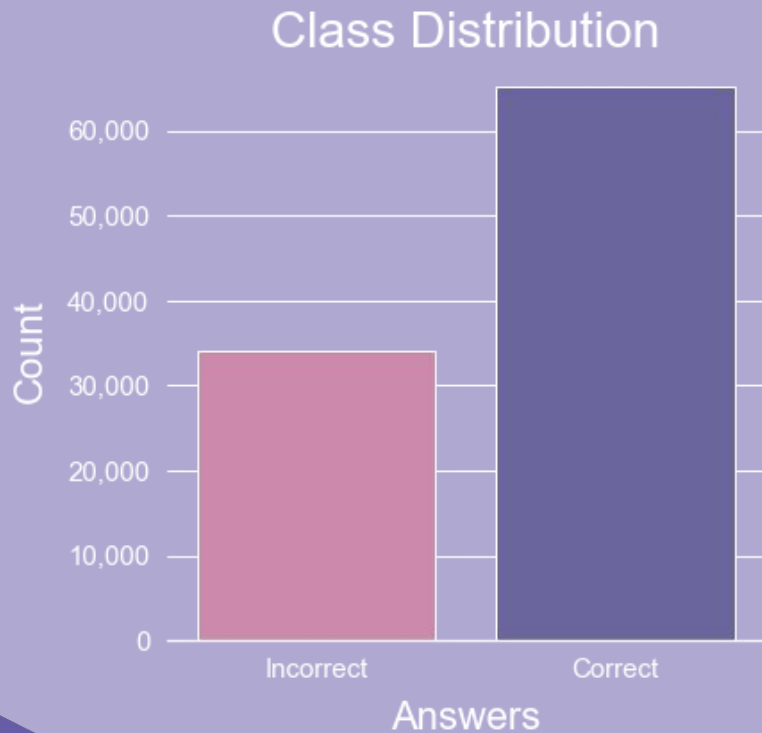
Ednet Database

100M+ Student Interactions

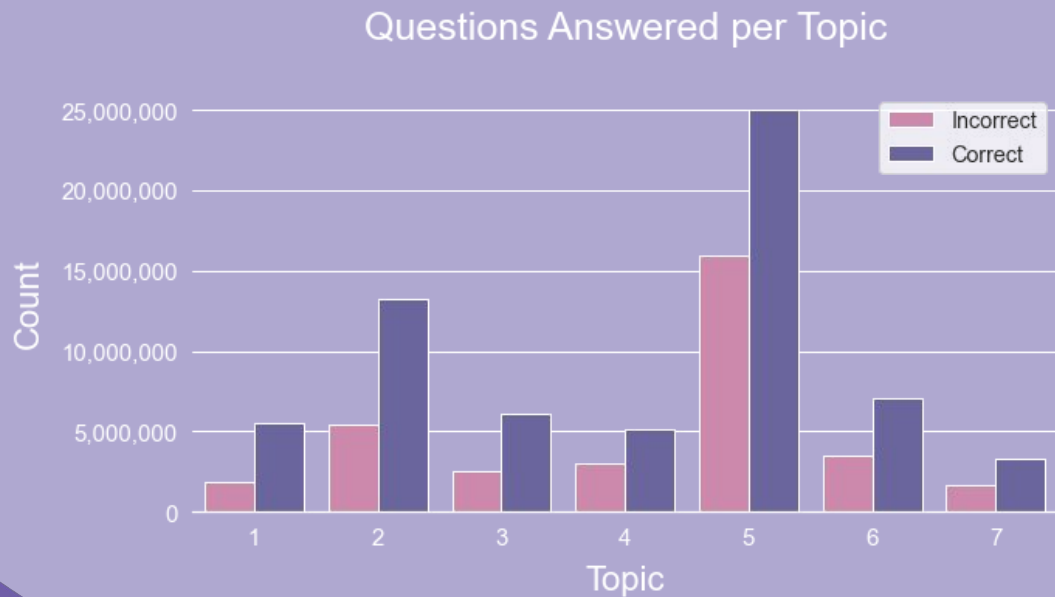
393,656 Students

13,523 Questions

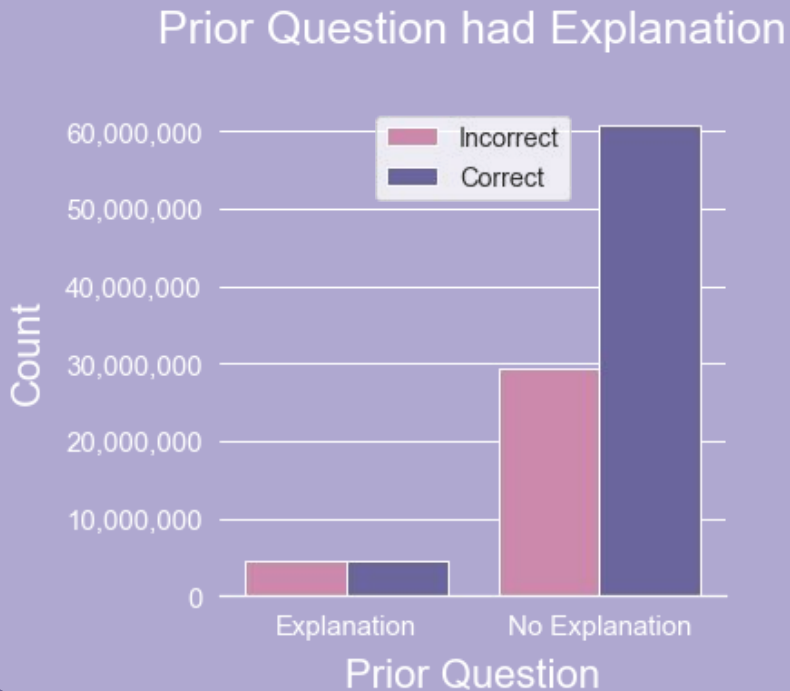
Student Answers



Features: Topic

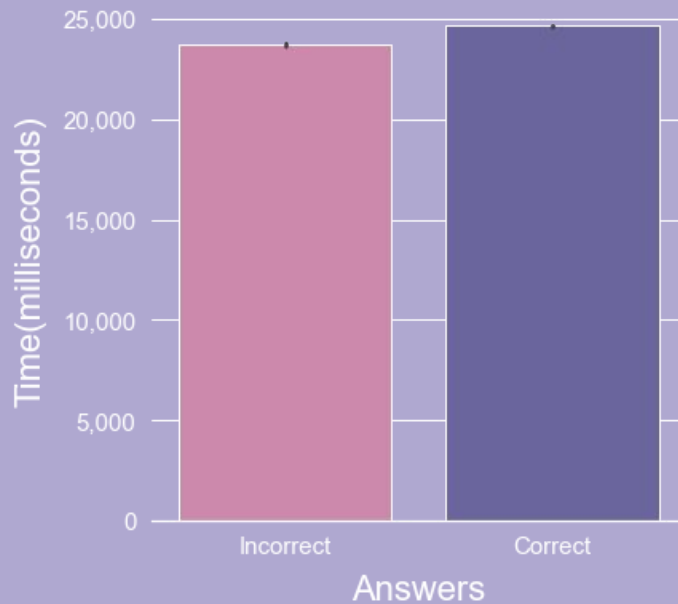


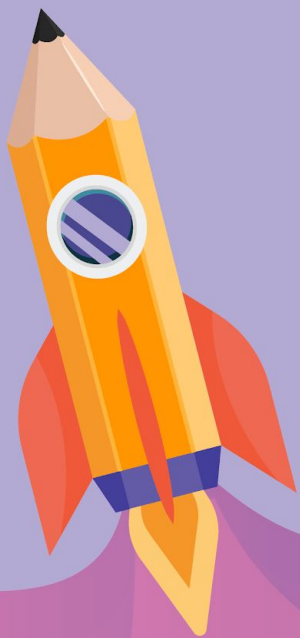
More Features



Engineered Features

Average Time per Question



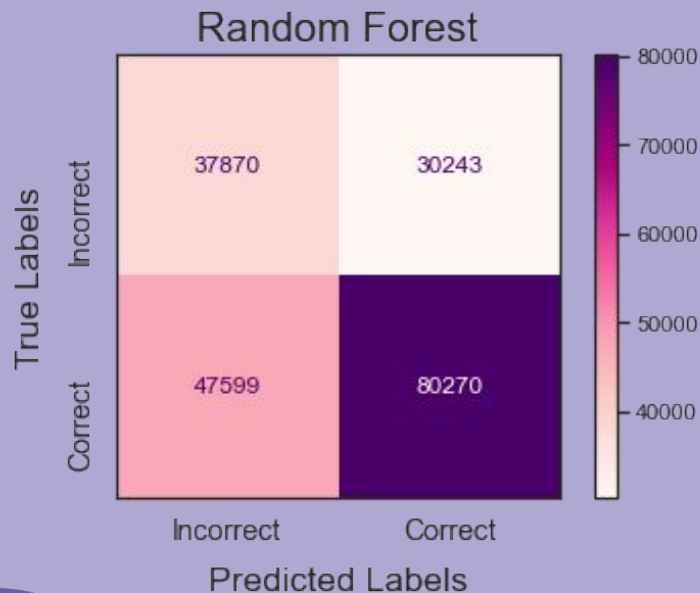


The Model

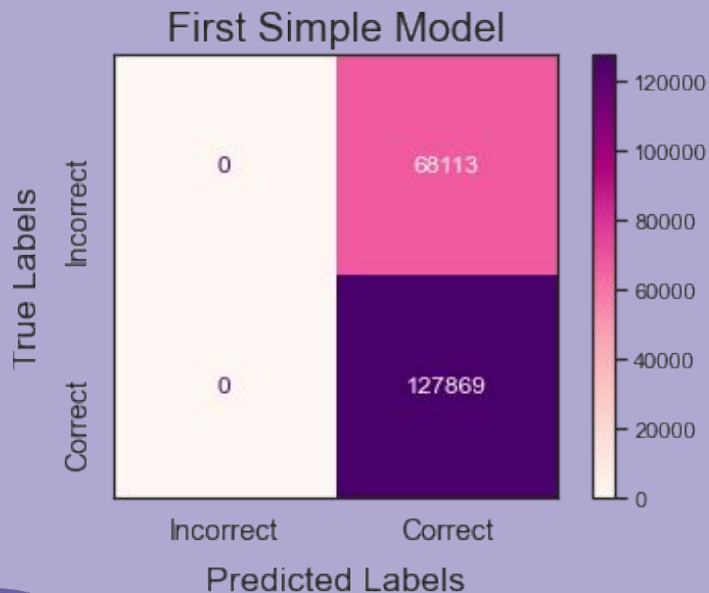
Random Forest

60% Accuracy

Confusion Matrix



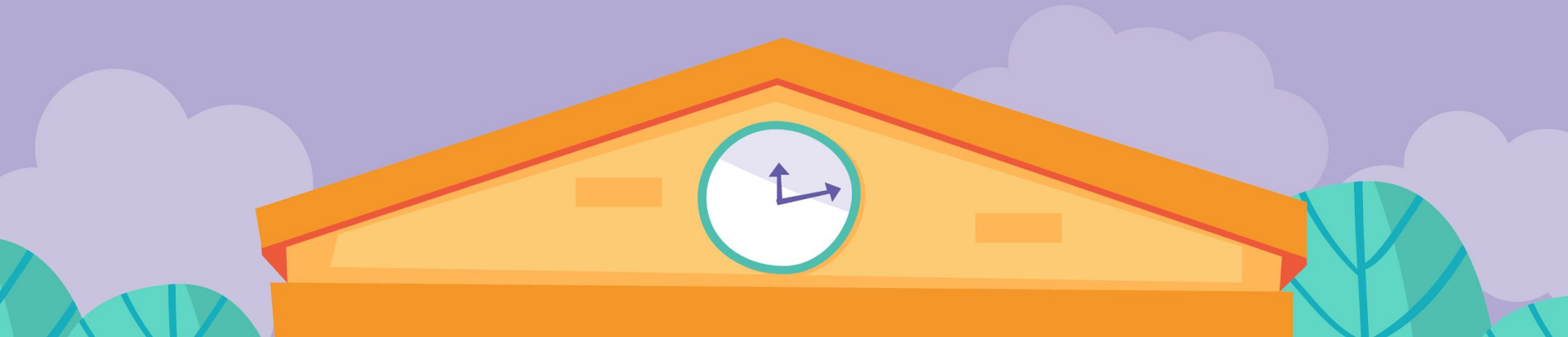
Confusion Matrix



Conclusion

We can use these predictions to improve and prove the success of AI tutors.

AI tutors could be a much needed change in our education system





- ❖ More Feature Engineering (If I can think of any)
- ❖ Try Neural Network Model with Tensorflow Keras
- ❖ Pickle and Flask Deployment

Contacts

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<https://github.com/SinShady>

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