Riiid AI Tutor

Student Performance Predictions

Sindhu Ravikumar

Issues in Education

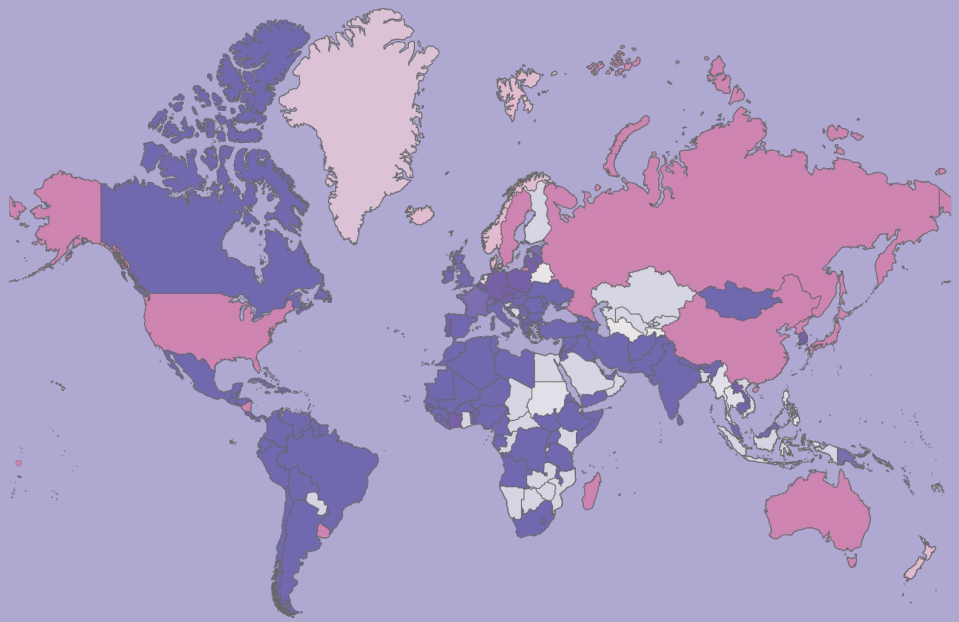
In 2018, 260 million children were not attending school

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

https://www.unicef.org/

School Closure Due to COVID-19

May 2020

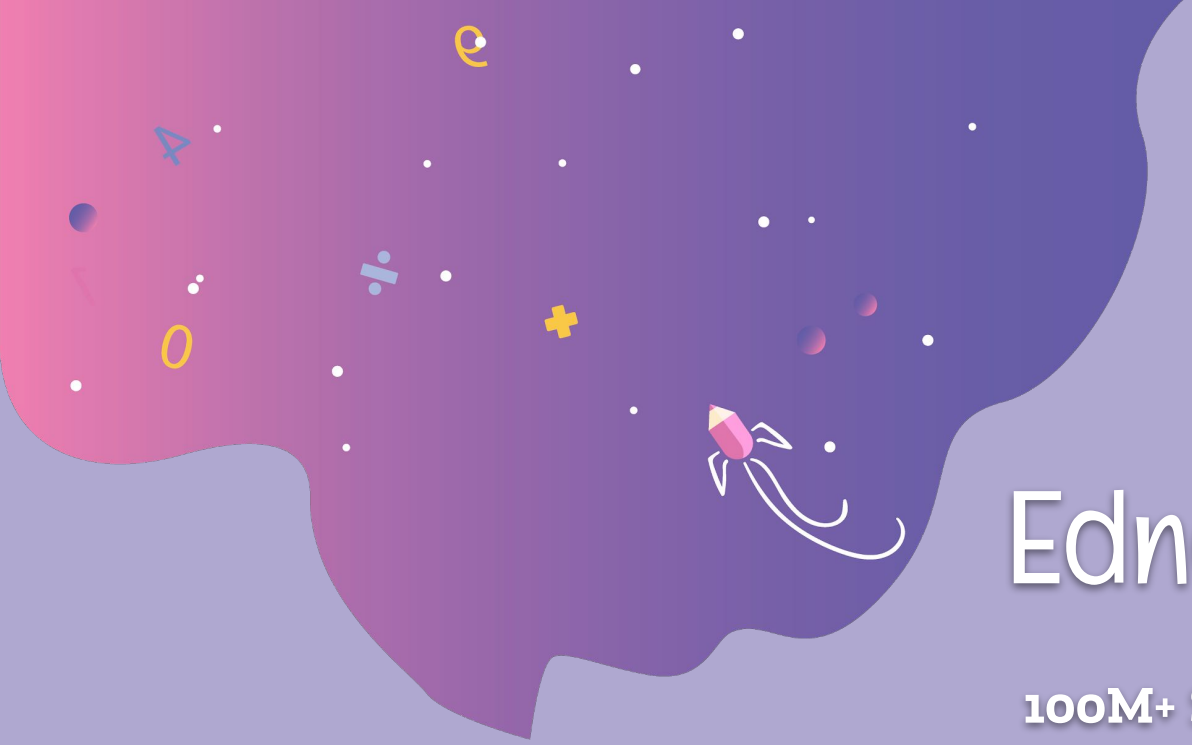


Map based on Longitude (generated) and Latitude (generated). Color shows details about Status. Details are shown for Country. The data is filtered on Date Month, which keeps May.

https://www.unicef.org/

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



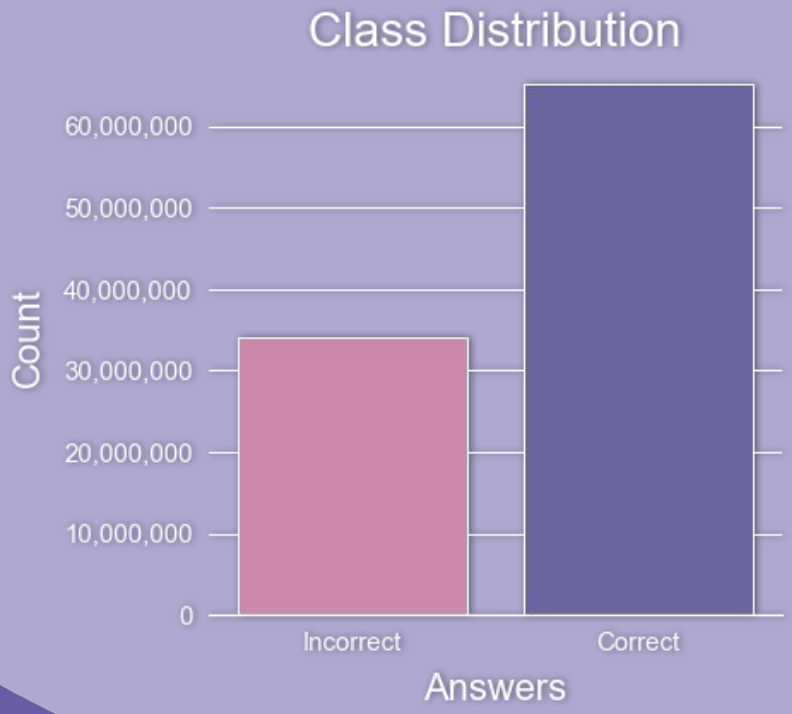
Ednet Database

100M+ Student Interactions

393,656 Students

13,523 Questions

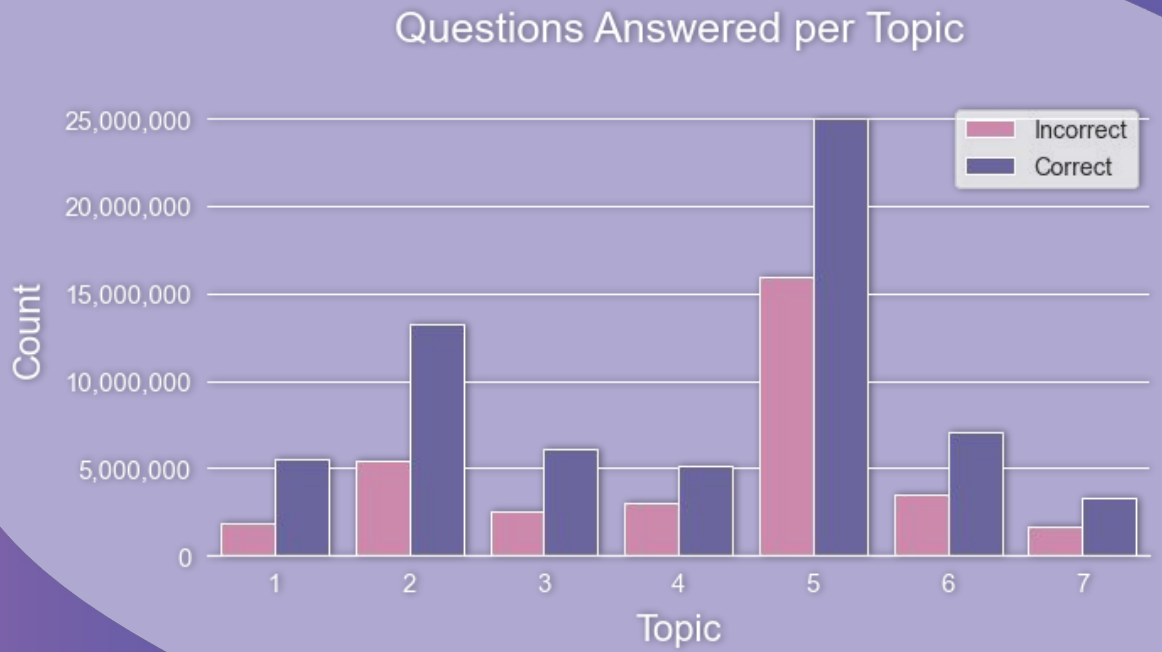
Student Answers



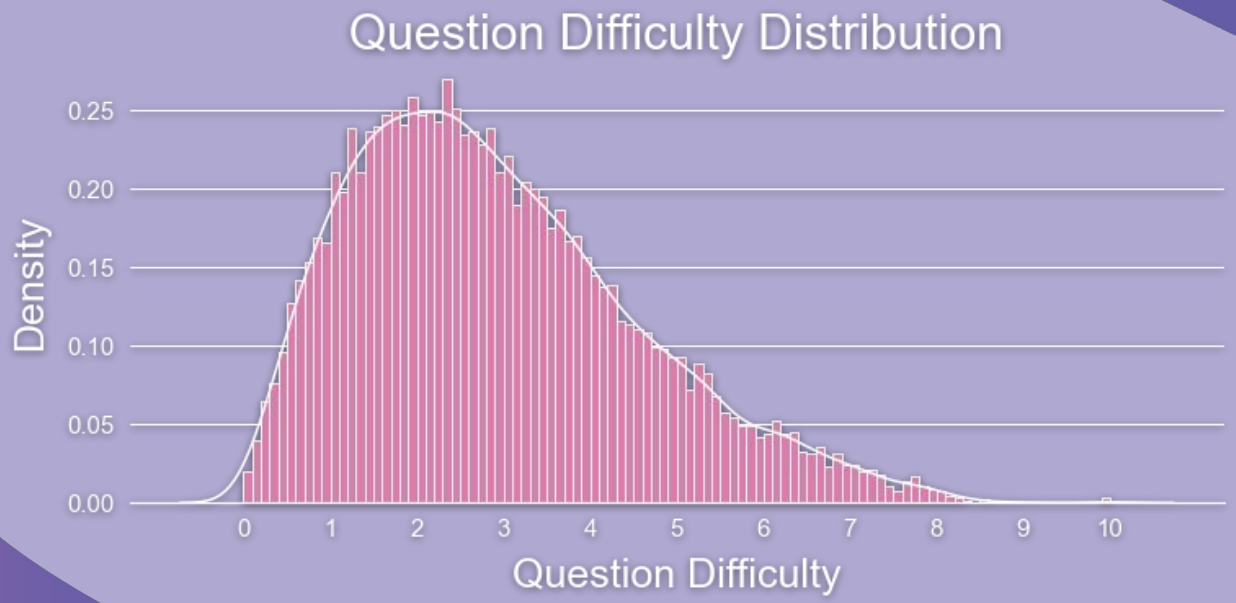
Features

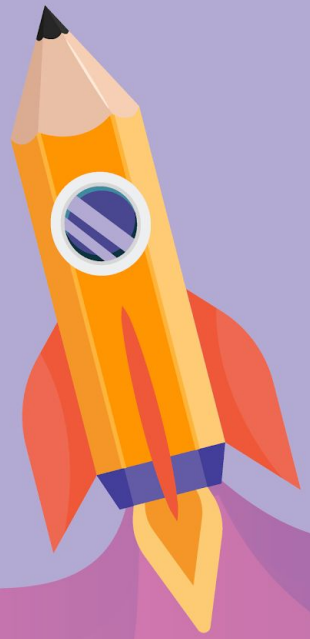
Prior Question Elapsed Time
Time (in seconds)
60
50
40
30
20
10
0
Incorrect
Correct
Answers

Features


Questions Answered per Topic
25,000,000
20,000,000
15,000,000
10,000,000
5,000,000
0
Count
1
2
3
4
5
6
7
Topic
Incorrect
Correct

Engineered Features



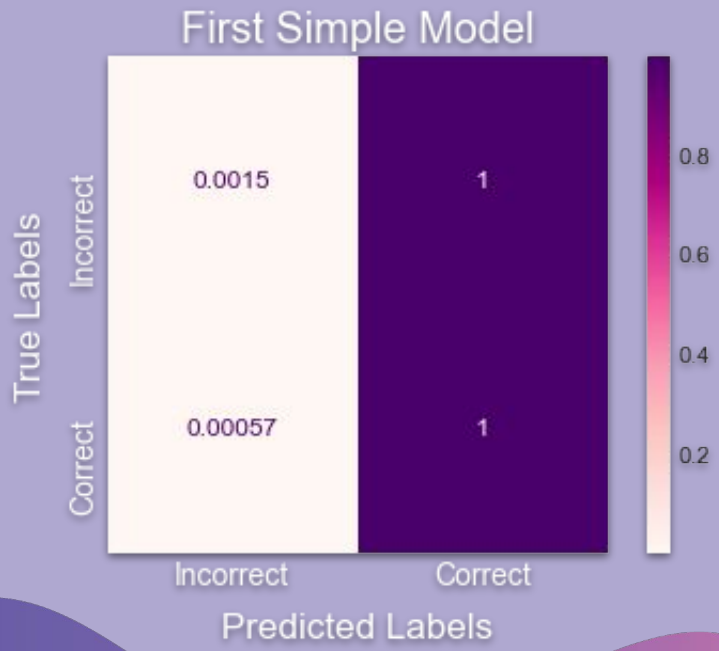


The Model

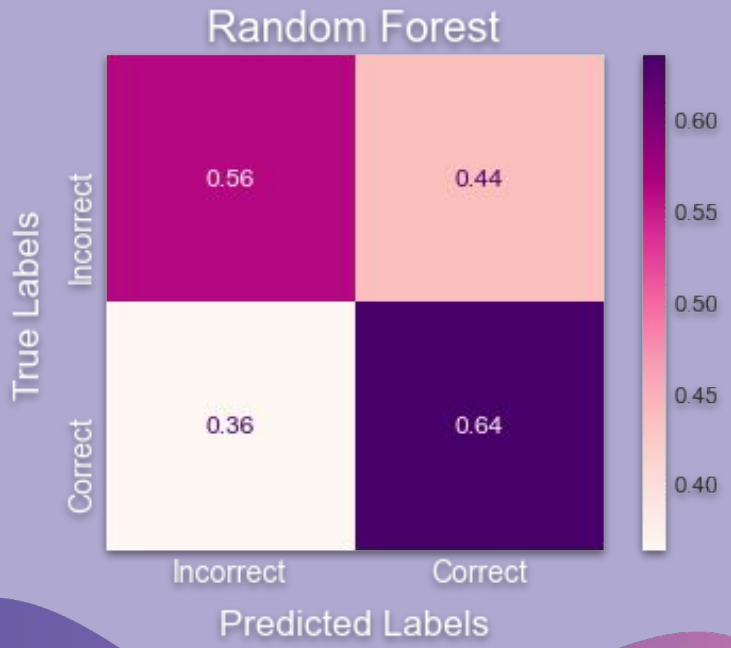
Random Forest

61% 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

Next Steps

- Fit More Data to Model
- Neural Network Model
- Web Deployment

Contacts

Sindhu Ravikumar

sindhu.ravikumar@gmail.com

https://www.linkedin.com/in/sindhuravikumar/

https://github.com/SinShady

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