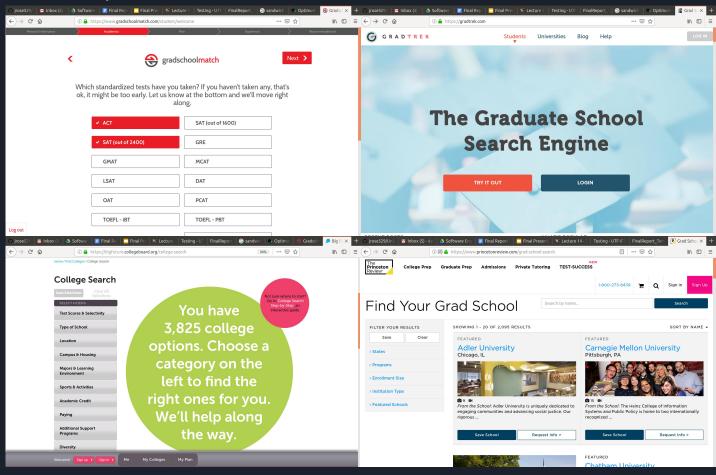
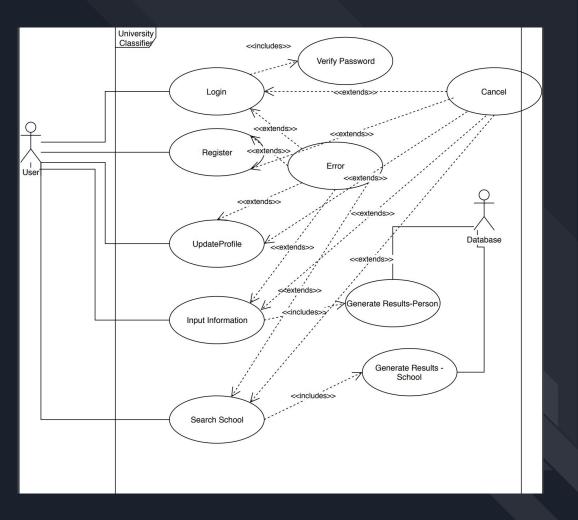
Final Presentation

University Classifier

Inception



Use Case



How It Works

Training User Input Result

We trained a neural network on a dataset of 500 student's graduate school application and the percent chance of admission to schools. User creates an account and inputs their academic information. This is fed to the neural network.

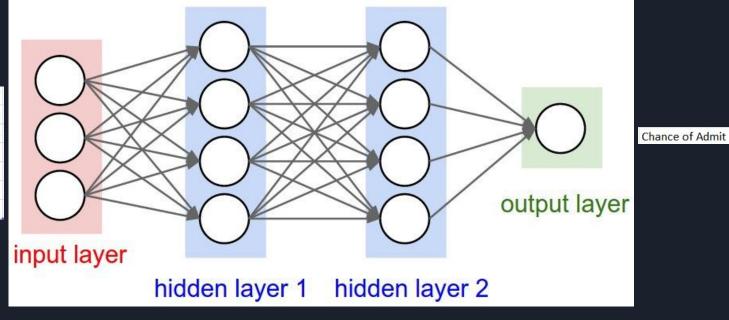
Neural network returns a list of schools with the student's percent chance of admission to each

```
model = keras.Sequential([
layers.Dense(64, activation=tf.nn.relu, input_shape=[7]),
layers.Dense(64, activation=tf.nn.relu),
layers.Dense(1)
```

0.92

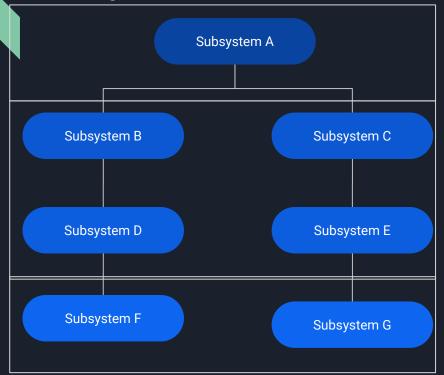
Algorithm

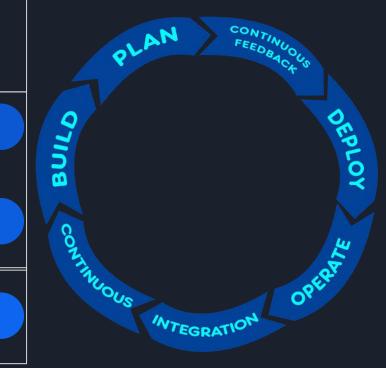
GRE Score	337
TOEFL Score	118
University Rating	4
SOP	4.5
LOR	4.5
CGPA	9.65
Research	1



1)

Project Workflow





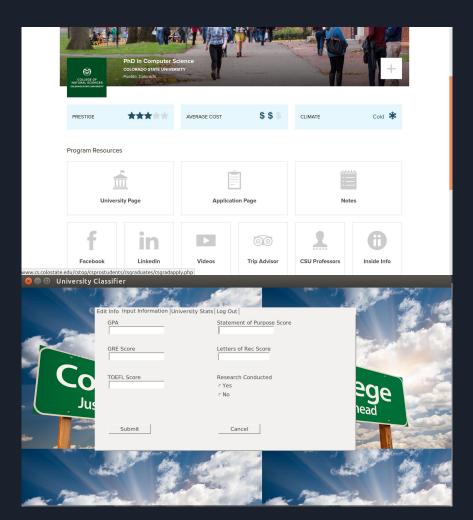
Challenges

- Switching from MySQL to Microsoft SQL
- Losing the Tensorflow workspace
- Limited data to train algorithm
- Using dataset with arbitrary school ranking system
- Exporting python data to C#
- Coordinating group meetings



Why us?

- Complement already-existing software
 - Gradtrek matches you with programs you're interested in
- Much more usable than similar programs
 - GradSchoolMatch 2 clicks as opposed to 10+



Extensions

- Location
- Program of Study
- Cost
- Train algorithm with more student data
- Statement of Purpose/ Letters of Recommendation ranking system

Lessons Learned

- Backups are important!
- Be sure to research how/if components can be integrated before starting work
- Communication is key
- Research existing technology before developing your own

Advanced Courses

In the future, we hope to learn at least some of the following

- Using AGILE in a team setting
- Code of ethics
- Thorough QA of code
- Learn more about maintenance of code after release

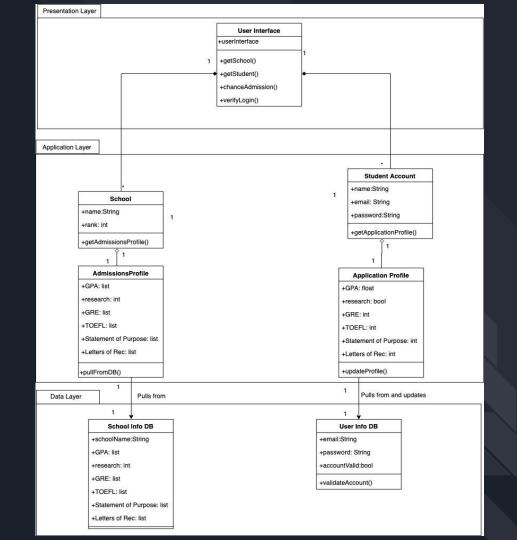
Demonstration

Extra Slides

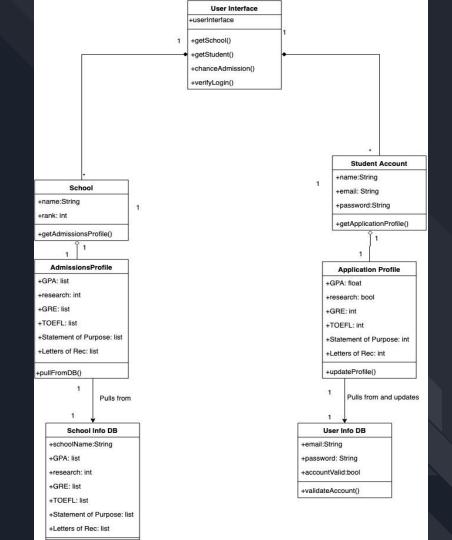
Gantt Chart

TASK NAME	START DATE	END DATE	DAYS INTO PROJECT*	DURATION* (WORK DAYS)	TEAM MEMBER	PERCENT COMPLETE	DAYS COMPLETE*	DAYS REMAINING*
Documentation Work								
Proposal	1/8	1/15	8	7	All	100%	7	0
Software Requirements Specification	1/16	2/14	16	30	All	100%	30	0
Class Diagram	2/1	2/21	31	21	All	100%	21	0
Sequence Diagram	2/15	2/21	31	7	All	100%	7	0
State Machine	2/15	2/21	31	7	All	100%	7	0
Wire Framing	2/13	2/15	31	3	All	100%	3	0
Functional Requirements								
Create university database	2/21	3/2	51	10	Marissa	100%	10	0
Create an account	2/17	3/14	47	26	Jensen	100%	26	0
Log into account	2/17	3/14	47	26	Jensen	100%	26	0
Update profile	3/3	3/14	63	12	Jensen	100%	12	0
Input scores and recieve list	3/3	3/14	63	12	Stockton	100%	12	0
Search for Specific School	3/15	3/30	75	16	Jensen	100%	16	0
Cancel	3/15	3/30	75	16	Jensen	100%	16	0
Error page	3/15	3/30	75	16	Jensen	100%	16	0
Testing Testing								
Test creating an account	4/1	4/11	91	11	Felix	100%	11	0
Test logging into the created account	4/1	4/11	91	11	Sumer	100%	11	0
Test updating profile	4/1	4/11	91	11	Marissa	100%	11	0
Test inputing scores	4/1	4/11	91	11	Marissa	100%	11	0
Check accuracy of result list	4/1	4/11	91	11	Stockton	100%	11	0
Test searching for school	4/1	4/11	91	11	Felix	100%	11	0
Check accuracy of school results	4/1	4/11	91	11	Sumer	100%	11	0
Test error functionality	4/1	4/11	91	11	Marissa	100%	11	0
Test cancel functionality	4/1	4/11	91	11	Felix	100%	11	0
Test response time	4/1	4/11	91	11	Stockton	100%	11	0
Test system crash does not result in data loss	4/1	4/11	91	11	Felix	100%	11	0

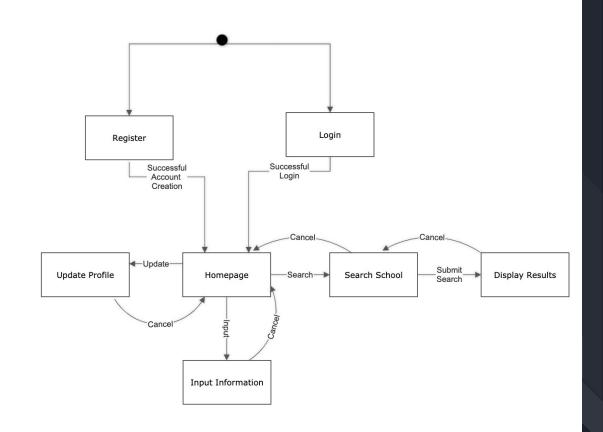
Subsystem



Class Diagram



State Machine



Sequence Diagram

