

# DEEP DANGER

A Story About the harm done by wrongful use of AI  
by Neil Connelly

One more thing...  
her family is  
SUPER MEGA RICH.



This is Sarah. She is a student at South High School. It's her senior year!



Sarah does well in her classes,



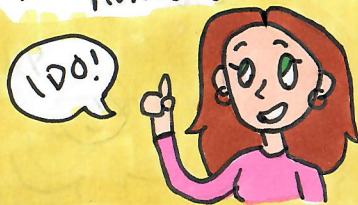
has lots of friends,



and loves going to high school.



But it's OK. Sarah keeps it humble.



She doesn't brag and makes sure to help people out.



That's why, this year, she has a good chance to get nominated for Prom Queen by her fellow students!

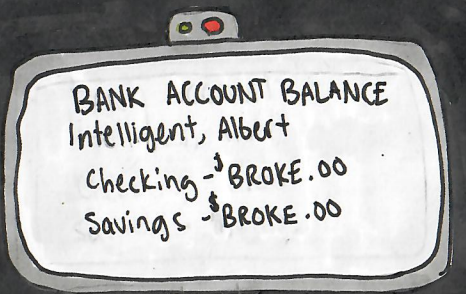
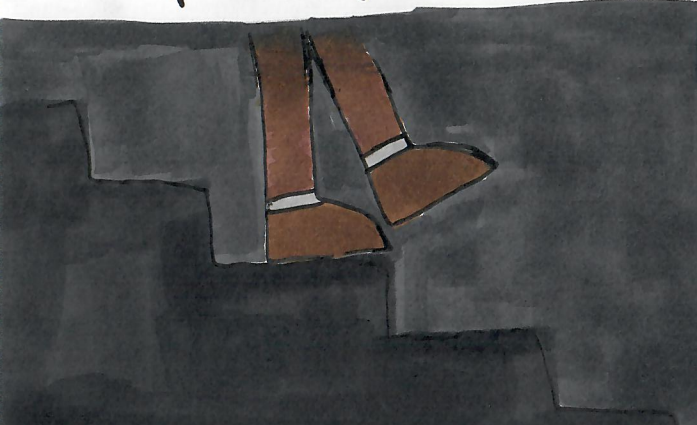




However, what Sarah doesn't know is that there are dark forces plotting against her...

Meet our villain, Dr. Albert Intelligent, or Dr. AI for short.

Dr. AI is vengeful due to the fact that he still lives in his mom's basement, but he is very intelligent. He is just a few (thousand) dollars short from moving out and starting his own software company. But the difficulty of this made him evil.



In a dark, remote basement lab...

BANK ACCOUNT BALANCE  
Intelligent, Albert  
Checking -\$ BROKE.00  
Savings -\$ BROKE.00

Currently, he is working on a sinister project that he thinks will finally get him the money he desires...

Anyone can make a deepfake- the technology is public. However, not everyone is as experienced in technology as Dr AI. He majored in computer science.

First, Dr. AI must record a video of himself impersonating Sarah, saying the worst things possible. After all, he needs a good base video to modify.

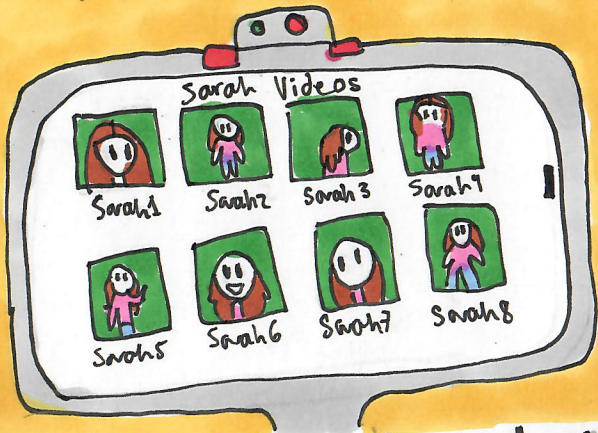
Damn Camera...



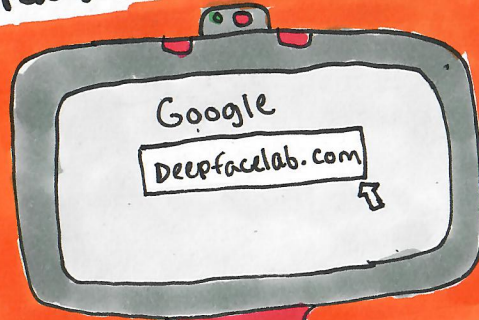
Using deepfake AI technology to extort Sarah and her family for their money and ruin their lives!

Over time, he will turn a video of himself into a video of Sarah, jeopardizing her schooling, and demanding money from her rich family.





1. which he has been using to train the network to recognize and map out her features.



Over time, the deep learning technology will learn to create realistic expressions that will be used to morph Dr. AI's face and voice into Sarah's! 3

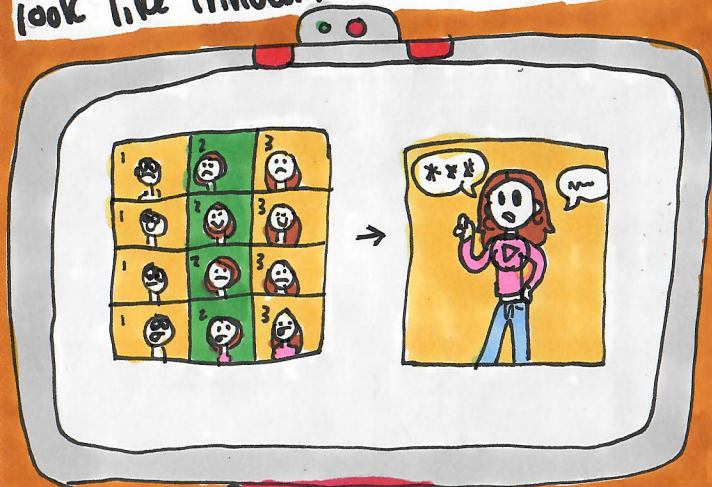


Dr. AI has already spent weeks training a neural network using footage of women speaking, as well as numerous photos, videos, and audio of Sarah from her public social media...

Then, he will use a facial recognition algorithm to slowly map Sarah's likeness, making it easier for the deep learning model to recognize and model her facial features in detail.

Lastly, he applies the trained model and swaps his face out for Sarah's, blending their features and making it look like innocent Sarah said all that!

finally, after months of working, I've done it! This looks just like her...



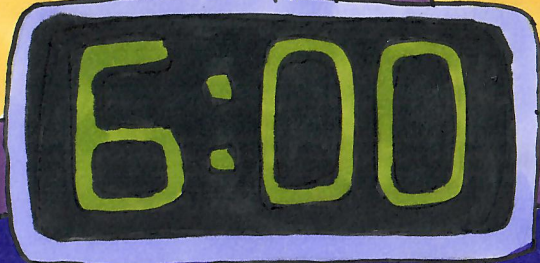
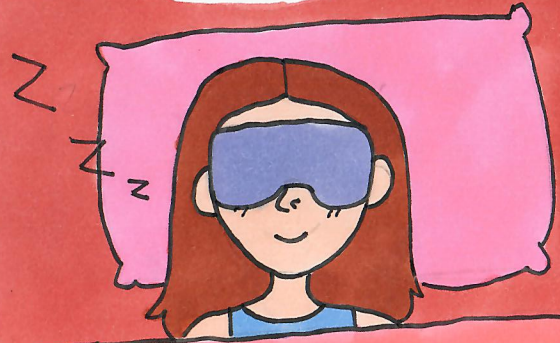
He writes his ransom note, dedicated to Sarah's parents.

Dear Sarah's Parents,  
 you don't know who I am, but I am about to ruin your family's life. The only way you can fix this is to leave 20,000 cash!

All that's left is to choose when he wants his evil plan to begin.



Meanwhile Sarah is asleep, getting her rest before what she thinks will be a great day of high school...

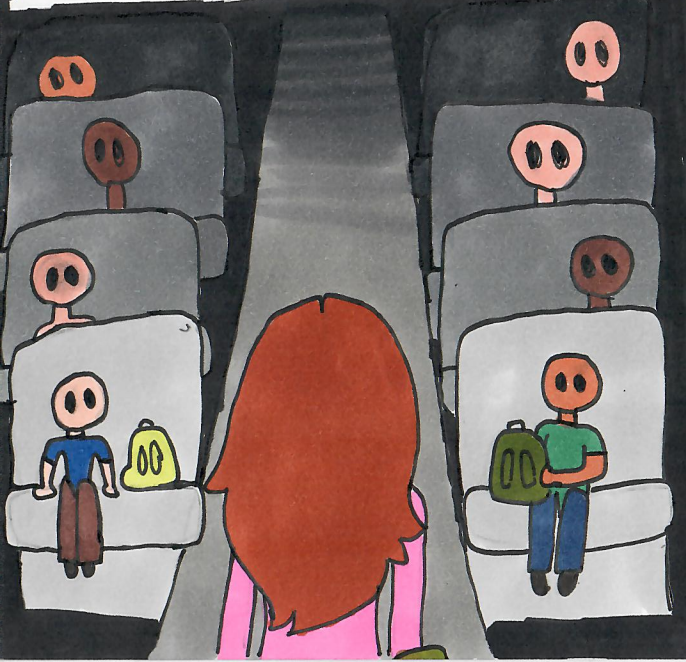


She has no idea what's lying in wait for her.

On the bus ride to school, Sarah noticed that unlike every other day, nobody saved her a seat. Everyone covered the seats next to them with backpacks.



Even worse, Sarah was sure that everyone was staring at her.



In the hallways, people whispered and laughed at her. Nobody would talk to her or even acknowledge her.

HA HA pssst whisper HA pssst whisper HA HA



Before she could even get to her first class, she was called into the office by an angry-looking principal.





Look at what you've done! you're in serious trouble. The things you said were awful and completely unacceptable for a student at this school. Many of your fellow classmates have come into the hallway saying that they are not having you in class and we must take some disciplinary action. We do NOT allow any form of discriminatory language, harassment, homophobia, racism, transphobia, or any other sorts of things. We do not expect this behavior from a star student and we regret having to take extreme measures this close to graduation. However, we feel we have no other choice.



And for the first time, Sarah was made aware of Dr. AI's plan. But she has no idea what a deepfake is, and is completely horrified!



Do you think I'm stupid? your face is in the video. This is completely unacceptable and you will be expelled IMMEDIATELY.



I have no idea what this is! I swear on my life that's not me!



And with that, Sarah was expelled. Her putting up a fight and standing up for herself only made it worse.



My life is ruined...

Assuming her parents were both at work, the devastated Sarah decided to phone a taxi to take her home to wallow in sadness.

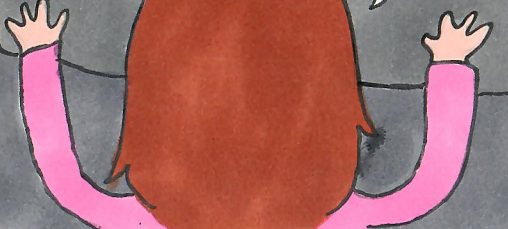
However, when Sarah got home, they were both there and also looked very frustrated.



Sarah quickly told them about the video, and her expulsion too.

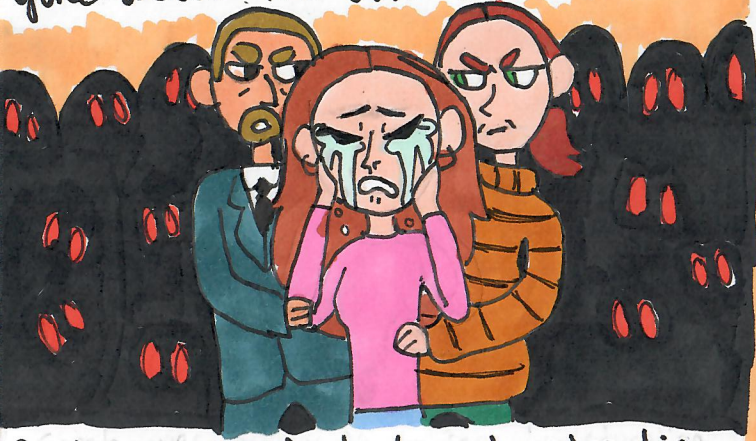


I don't know! I've never seen anything like this before!





As they marched through school and towards the office, students were glaring at Sarah. It was clear the video had gone around the entire school.



Sarah was preparing to lose her education, her friends, and life as she knows it. Nothing this bad has ever happened to her.

It was Julie, the nerdiest and most introverted girl in school. She has no friends and eats lunch in the bathroom. But she seems to know what's going on!

I've seen this before! The video isn't real! It's called a deepfake and it uses newer technology to make awful fake videos of people.



Pull up the video! I'll show you!

When they got into the office, the principal looked furious to see them, angrily yelling before they could even shut the door.



What are you doing back here?



But then, a voice from out in the hallway took everyone by surprise.

The principal was shocked but still not entirely believing that the video could be fake. After all, she had never heard of this before.



Julie rushed over to the principal's computer while she reluctantly pulled up the video. Julie sat at the desk and pulled up Microsoft's Video Authenticator and Deepware Scanner. Immediately it flagged the video as suspicious.

I just can't believe it! It's her face AND voice.





You have to believe me! Look closely for things that don't look right. These are called anomalies.



In fact, the more everyone looked, the more they started to see the truth. The features looked slightly blurry and the audio was slightly off-tune from Sarah's real voice!

Suddenly, the image shifted, and the truth was revealed!



A flash of glasses from beneath Sarah's face! Her parents recognized Dr. AI immediately!

That's Albert! We went to school together! He's supposed to be in JAIL for FRAUD! How did he get out?



Look closely at her eyes when they blink, her hair, clothes, and accessories, and the edges of her face! That's where it's the easiest to tell. And listen to her voice! Something clearly isn't right with it!



Following this, law enforcement did conclude that the video was fake, and the ransom note was traced back to Dr. AI.



Sarah has privatized all her social media accounts and has vowed to take many computer science courses in college so that she is more knowledgeable of AI technologies and the danger of wrongful use.



And in the end, the school made her Prom Queen by default because they felt bad for expelling her.



She even invited Julie up to accept the crown for saving her.

He was subsequently arrested for defamation, fraud, identity theft, and for violating his probation numerous times.

Oh! And Brian and Julie are now the best of friends and eat lunch together every day.

**THE END**