

SV STEM CAMP 2024

Mina Sung

Grade 9

Elective Portfolio



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VR + Web Dev + AI

Coach Tasha



Day 1



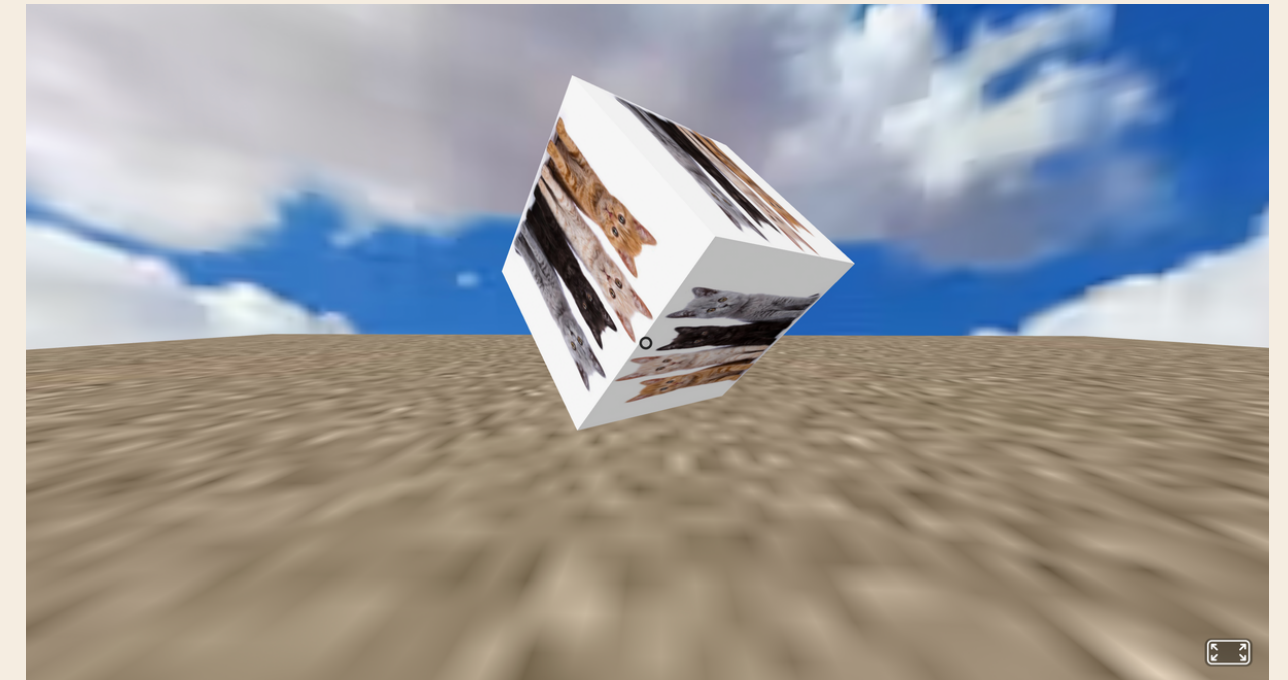
Day 2

Cat Game

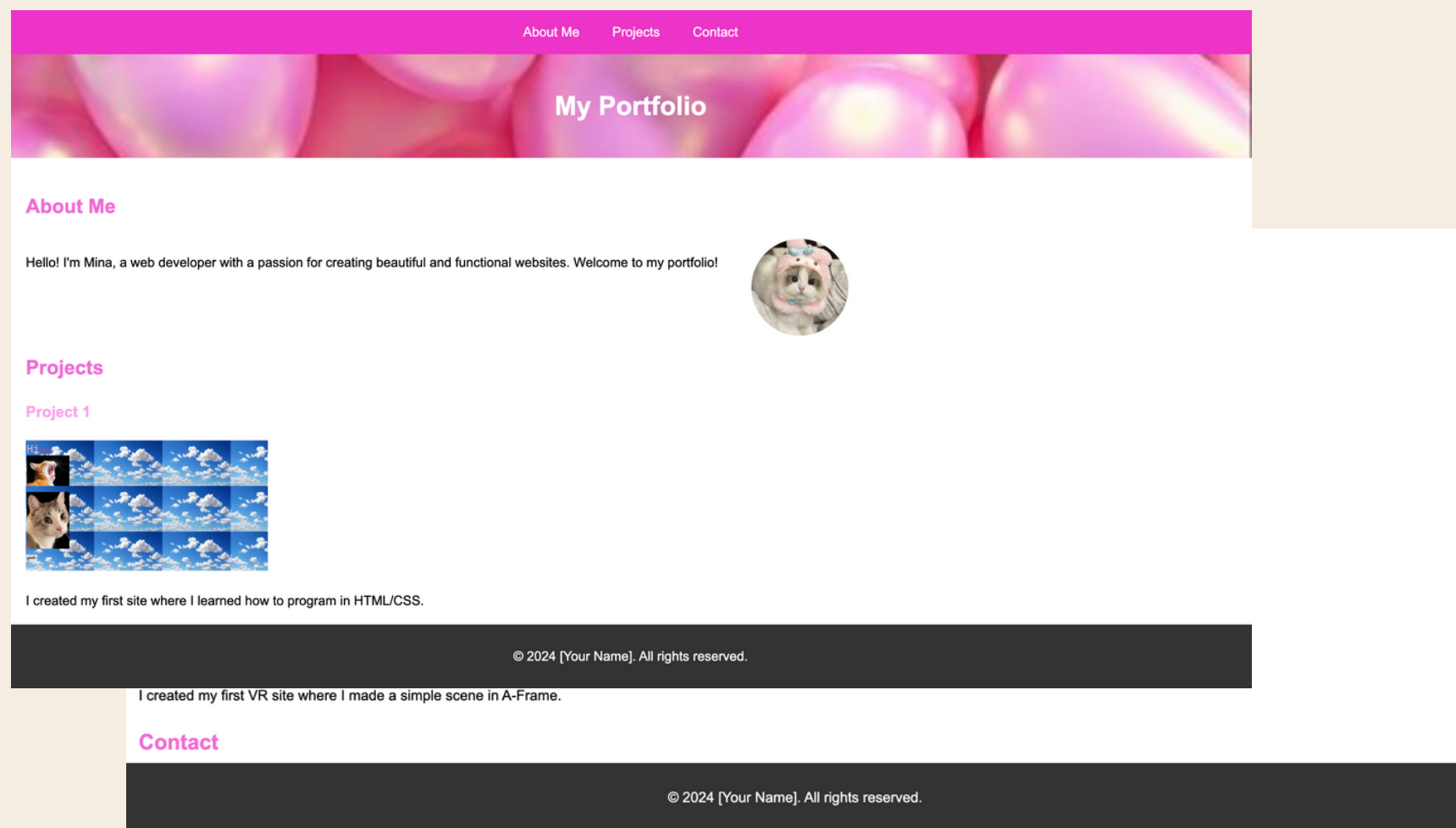


Score:
Start petting!

Day 3



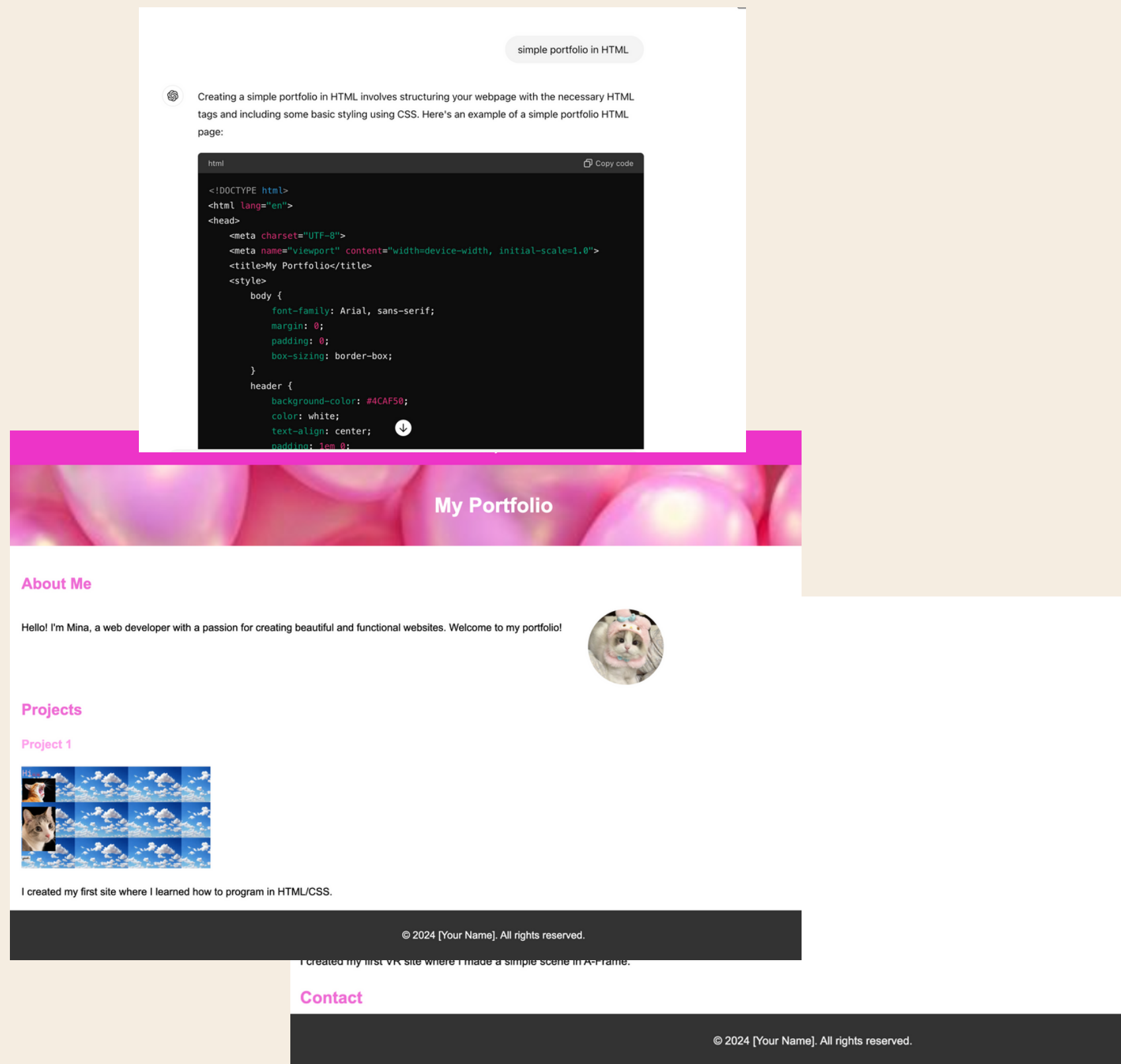
Day 4: Created a simple portfolio using an AI



What I Did

- **Day 1:** I created my first site where I learned how to program in HTML/CSS.
- **Day 2:** I created my first game where I learned Javascript.
- **Day 3:** I created my first VR site where I made a simple scene in A-Frame.
- **Day 4:** I created a simple portfolio using an AI

Highlights



→ Highlights

- I created a simple portfolio in HTML and CSS using Chatgpt.
- I learned that using AI to generate base code is an efficient way to create a website.

→ Key Takeaways

- I learned how to program in HTML, CSS, and Javascript to build a website and VR site.
- I learned how to use an AI to generate base code for a website.

→ Challenges

- It was the first time I programmed in HTML, CSS, and JavaScript. I faced a lot of technical issues during this process.
- Coach Tasha and Coach Lucas helped me solve the technical issues.



Challenges



Future Learning

→ Next Steps

I want to develop a more advanced website using HTML, CSS, and JavaScript.

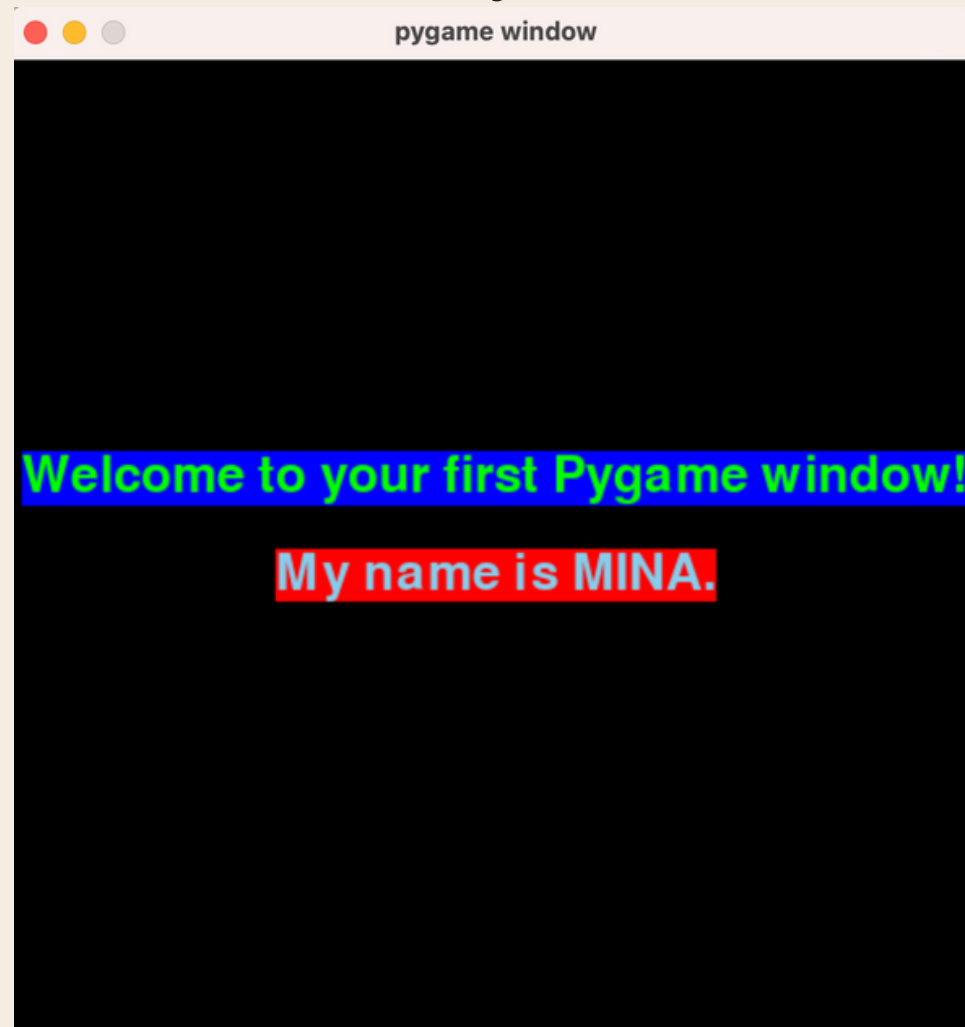
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Pygame Game Dev

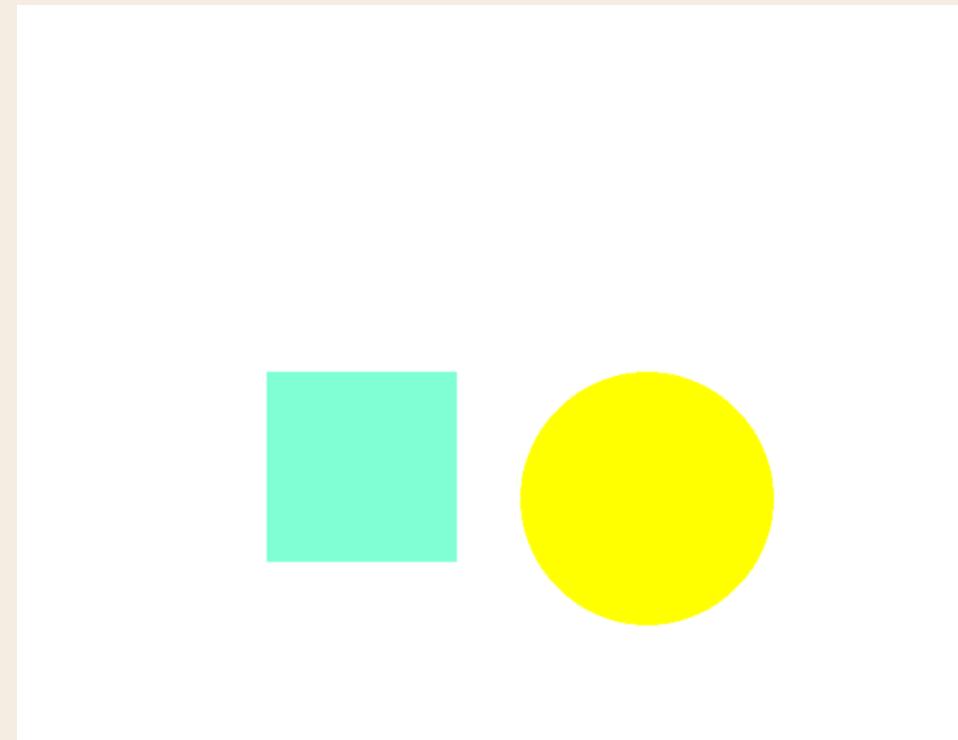
Coach Lucas



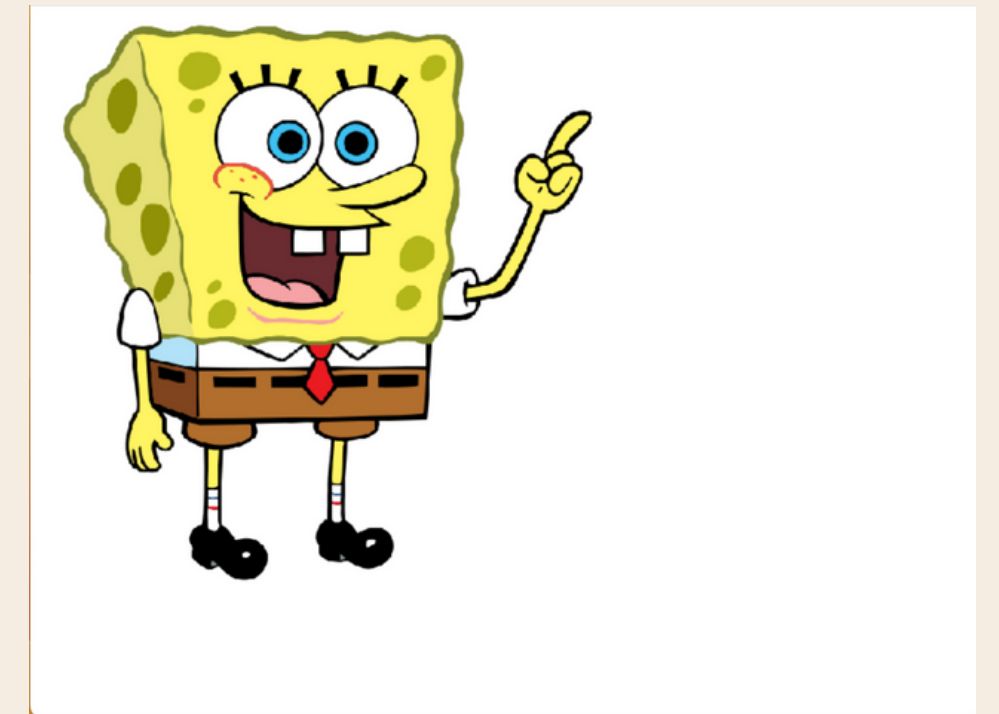
Day 1



Day 2



Day 3



What I Did

Day 4



- I learned what Python is.
- I learned how to draw shapes and images, how to use keyboard input, and how to implement collisions between objects in Pygame.
- I created my own game using these three skills.

Highlights



→ Highlights

- I created my own Pygame called 'Frog Race' by drawing images, using keyboard input, and implementing collisions between objects.
- I learned how to display text in Pygame.

→ Key Takeaways

- I learned how to program in Pygame.
 - Drawing shapes or images
 - Using keyboard input
 - implementing collisions between objects

→ Challenges

- It was the first time I programmed in Pygame. I faced a lot of technical issues during this process.
- Coach Lucas and Coach Germane helped me solve the technical issues.



Challenges



Future Learning

→ Next Steps

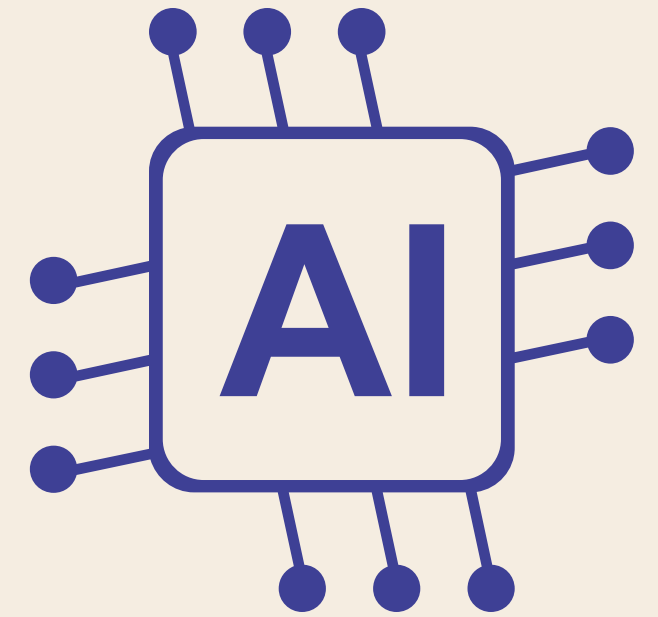
- I want to develop a more advanced game using Pygame.
- I want to learn how Python is useful for data science.



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Multi-Modal AI Storymaking

Coach Hyunjun

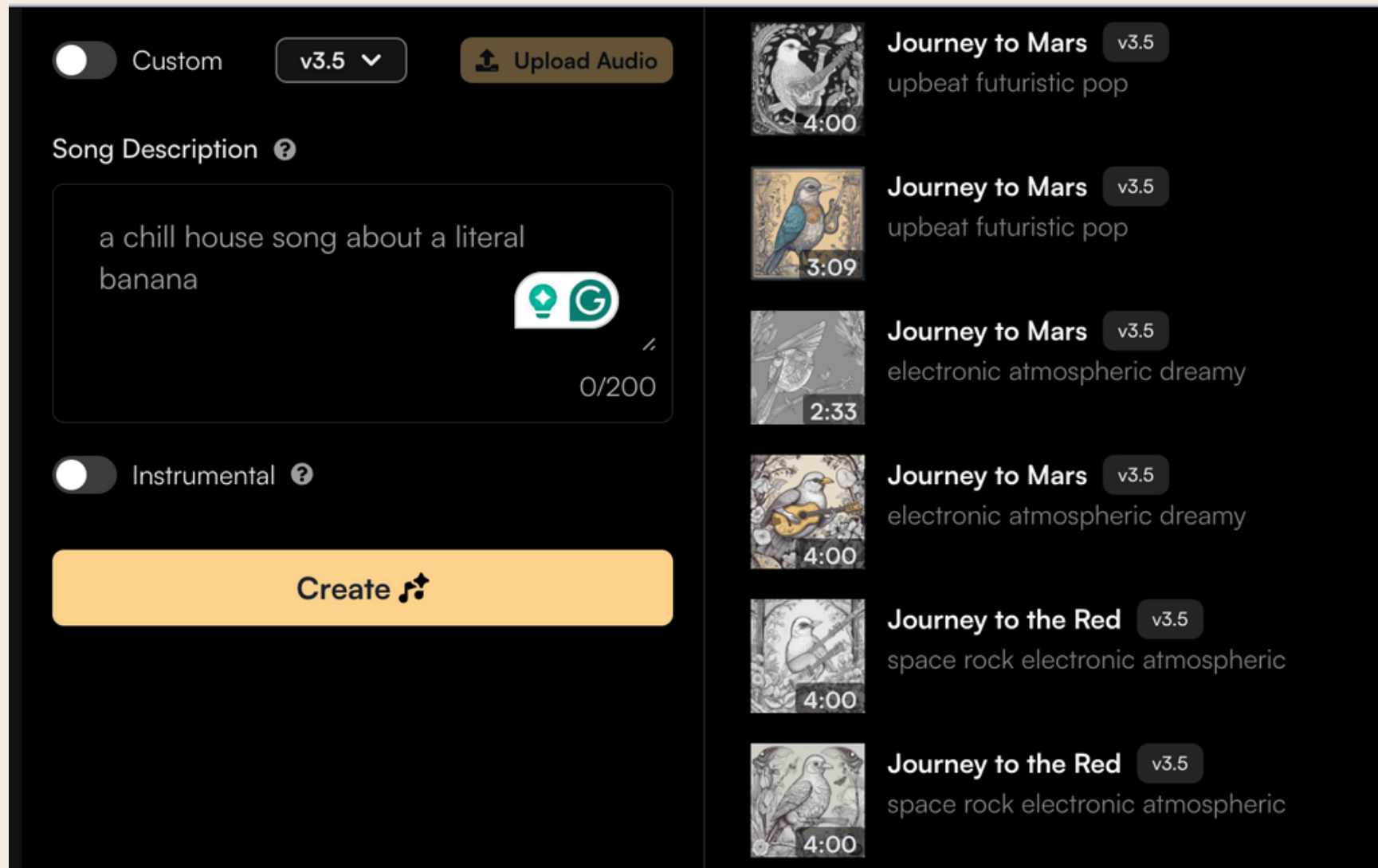




What I Did

- I created a science fiction novel using ChatGPT.
- I generated drawings using Dalle.
- I generated music using Suno.

Highlights



→ Highlights

- I learned how to use Suno to generate music.
- I learned that generating music using an AI tool is an efficient way to create music.

→ Key Takeaways

- I learned how to use Chatgpt to create writing.
- I learned how to use Dalle to generate drawings.
- I learned how to use SUNO to generate music.

→ Challenges

- I faced challenges in time management because I spent a lot of time generating images without considering the time for writing and music.
- Next time, I will plan specific times for each task to efficiently finish the project.



Challenges



Midjourney

Future Learning

→ Next Steps

- I want to use other AI generators such as Midjourney or Stable Diffusion



Stable Diffusion

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Thank You

