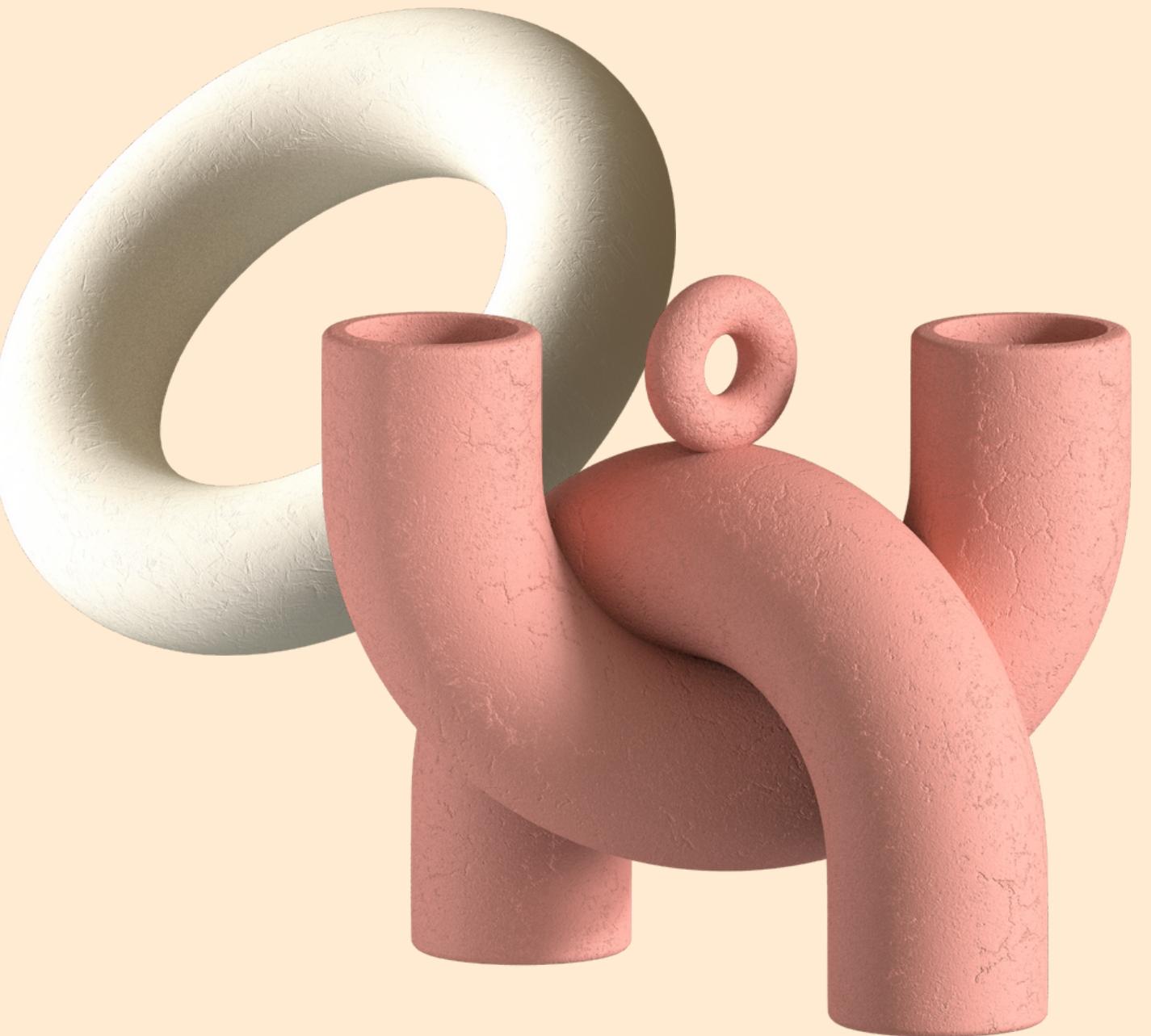


# Mental Health Chatbot AGNES

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# Why Mental Health Chatbot AGNES?

# Mental Health Problems Among Adolescent Students

 World Health Organization  
<https://www.who.int/news-room/detail/mental-health-of-adolescents> ::

**Mental health of adolescents**

17 Nov 2021 — Depression, anxiety and behavioural disorders are among the leading causes of illness and disability among adolescents. Suicide is the fourth.

Improving the mental and... · Guidelines on promotive and...

 Healthdirect  
<https://www.healthdirect.gov.au/mental-health-issues-in-teens/treatments-and-causes> ::

**Teenage mental health - treatments and causes**

Teenagers and adolescents can suffer from mental health issues as they experience new relationships, school or study or starting a new job.

 HealthyChildren.org  
<https://www.healthychildren.org/.../terjemahkan-halaman-ini> ::

**Teen Mental Health: How to Know When Your Child Needs ...**

31 Jul 2023 — What mental health conditions are most common for teens? · Attention deficit/hyperactivity disorder(ADHD) affects nearly 10% of all U.S. kids ...

# Key Facts

- Globally, one in seven 10-19-year-olds experiences a mental disorder, accounting for 13% of the global burden of disease in this age group.
- Depression, anxiety and behavioural disorders are among the leading causes of illness and disability among adolescents.
- Suicide is the fourth leading cause of death among 15-29 year-olds.
- The consequences of failing to address adolescent mental health conditions extend to adulthood, impairing both physical and mental health and limiting opportunities to lead fulfilling lives as adults.

# Mental Health Chatbot AGNES

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AGNES is a **mental health chatbot** project aimed at providing a place to vent to those in need. With the ability to communicate through verbal conversation, **users can talk to AGNES**, and their speech will be converted into text. AGNES responds with visual characters, creating an immersive interactive experience. Empowered by NLP technology and artificial intelligence, AGNES provides empathic and in-depth responses, creating a safe environment for individuals seeking mental support.

More than a chatbot, AGNES is a caring virtual friend, providing unconditional support and a safe space for users to share their feelings. The project aims to **provide innovative solutions** in supporting mental health and creating a safe space for reflection and beneficial interactions.

# Data Value

| A Context                                                                                               | A Response                                                                                              |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| I struggle with depression as well as pretty intense mood swings throughout the month. I experience ... | It's fun to ride the roller coaster from time to time, isn't it? :)But, it's also weary-making, and ... |
| I struggle with depression as well as pretty intense mood swings throughout the month. I experience ... | Are you certain your highs and lows are directly related to your cycle? It's possible that there ar...  |
| I struggle with depression as well as pretty intense mood swings throughout the month. I experience ... | Depression and PMS symptoms can be so hard to navigate ! Looking at this from a holistic standpoint...  |

| A Context                                                                                               | A Response                                                                                              |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| I'm going through some things with my feelings and myself. I barely sleep and I do nothing but think... | If everyone thinks you're worthless, then maybe you need to find new people to hang out with.Serious... |
| I'm going through some things with my feelings and myself. I barely sleep and I do nothing but think... | Hello, and thank you for your question and seeking advice on this. Feelings of worthlessness is unfo... |
| I'm going through some things with my feelings and myself. I barely sleep and I do nothing but think... | First thing I'd suggest is getting the sleep you need or it will impact how you think and feel. I'd ... |

| A Context                                                                                               | A Response                                                                                              |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| I have so many issues to address. I have a history of sexual abuse, I'm a breast cancer survivor and... | Let me start by saying there are never too many concerns that you can bring into counselling. In fac... |
| I have so many issues to address. I have a history of sexual abuse, I'm a breast cancer survivor and... | It is never too late to get help and begin making significant changes and improvements in your life.... |
| I have so many issues to address. I have a history of sexual abuse, I'm a breast cancer survivor and... | You have been through so much and it sounds like you have a lot of things that have complied over th... |
| I have so many issues to address. I have a history of sexual abuse, I'm a breast cancer survivor and... | Absolutely not. I strongly recommending working on one issue/need at a time. In                         |

source: <https://www.kaggle.com/datasets/thedevastator/nlp-mental-health-conversations>

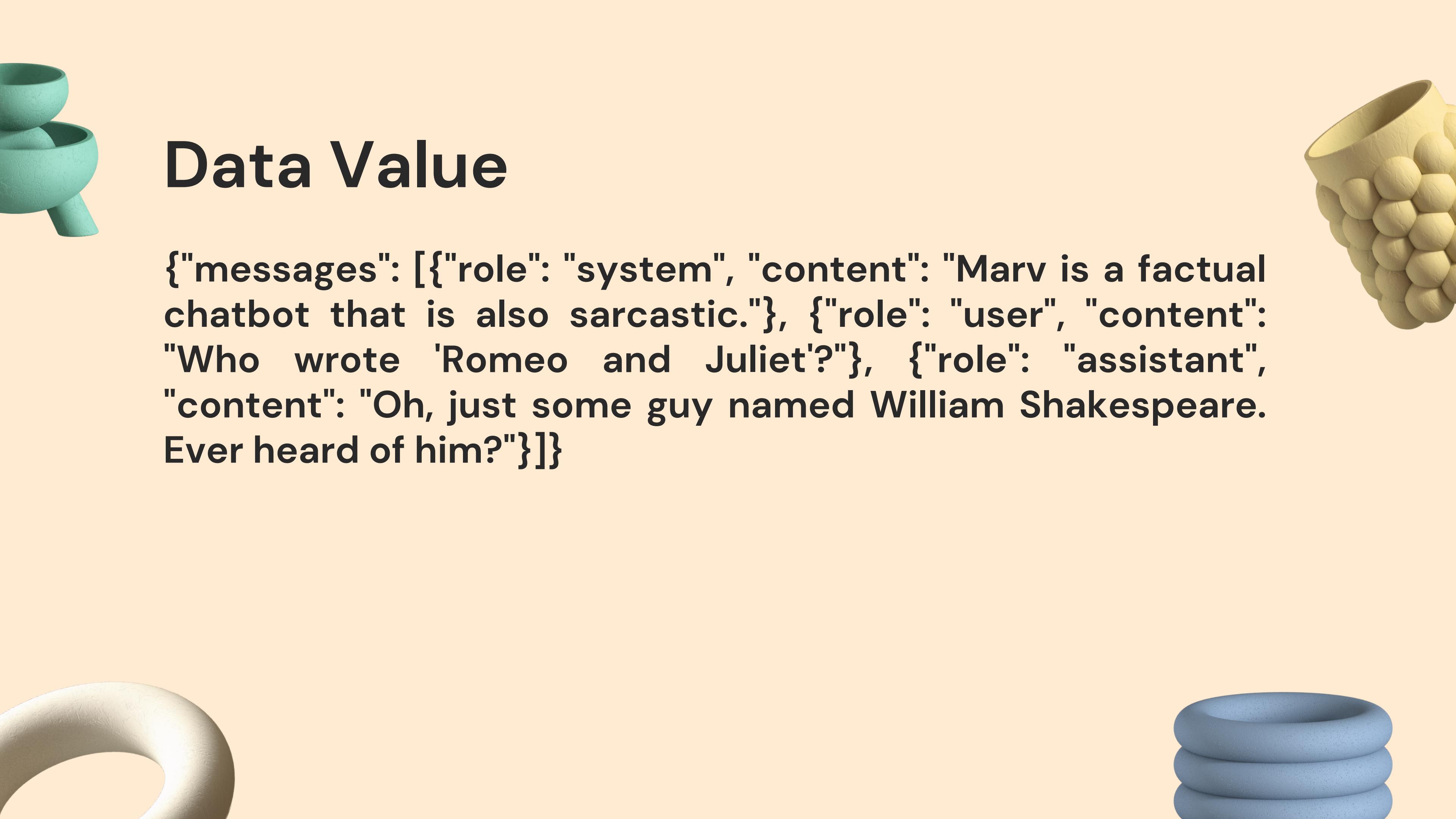
# Paradigm

Generative

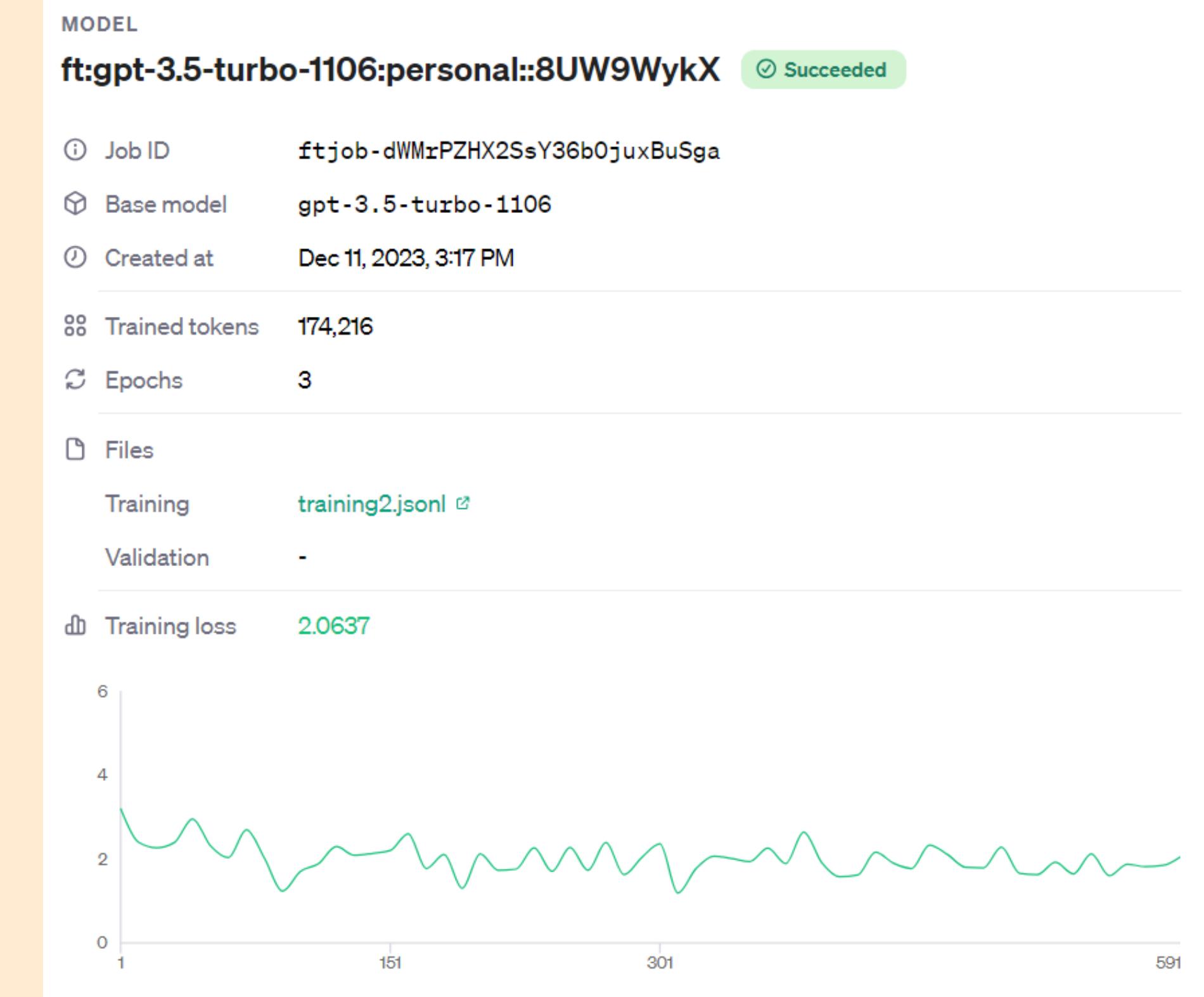
# Architecture

Transformer

# Data Value

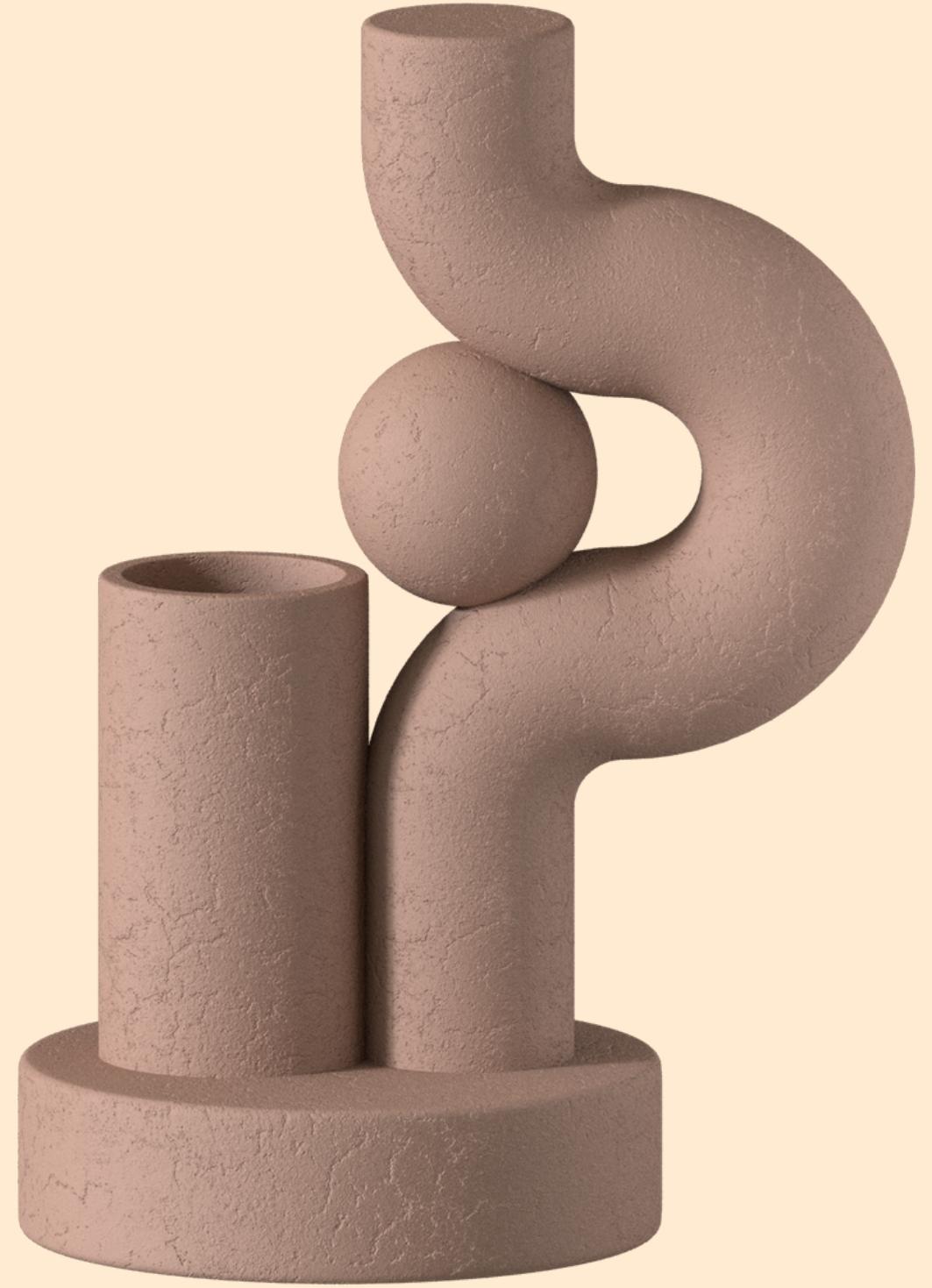
```
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```

# Fine Tuning



**Let's watch a  
demo of this  
programming  
code!**





**Thank You!**