

# A Guiding Hand

## Needfinding Results

Team 8 - Gautam, Sarvesh, Kanav



# Our Project

*We are...*

- Gautam Khajuria
- Sarvesh Jayaraman
- Kanav Arora

*We're covering...*

- Educational AI use in the corporate and educational scene

We chose this domain because it was the most relevant and interesting sector where AI is being used as a tutor.

# Our Needfinding Methodology

x



## Education

We wanted to understand how students dealt with a broad variety of concepts with AI

x



## Corporate

We wanted to examine how AI helps workers delve into their job's niches and specialize.



# Our Participants

## Fanbo

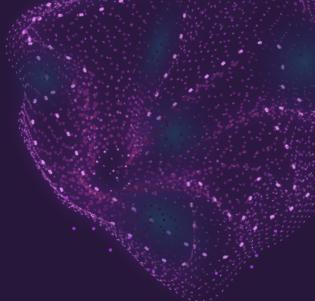
An 18yo English Major at  
SBCC

## Jane

A 20yo Biology student in  
the UK

## Sam

Earth is the third planet  
from the Sun



# Our Questions

**What do you  
use AI for  
the most?**

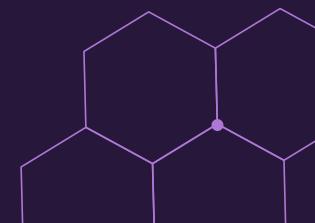
**When you use AI  
as a learning tool,  
what are you  
usually hoping it  
will help you with?**

**When you use AI as  
a learning tool, what  
are you usually  
hoping it will help  
you with?**

**What is a crucial  
time you used it to  
help you learn and  
meet a deadline like  
a quiz?**

**What features  
would help you  
feel more  
ownership over  
your learning?**

**What prompts,  
tools, or  
features do  
you use?**





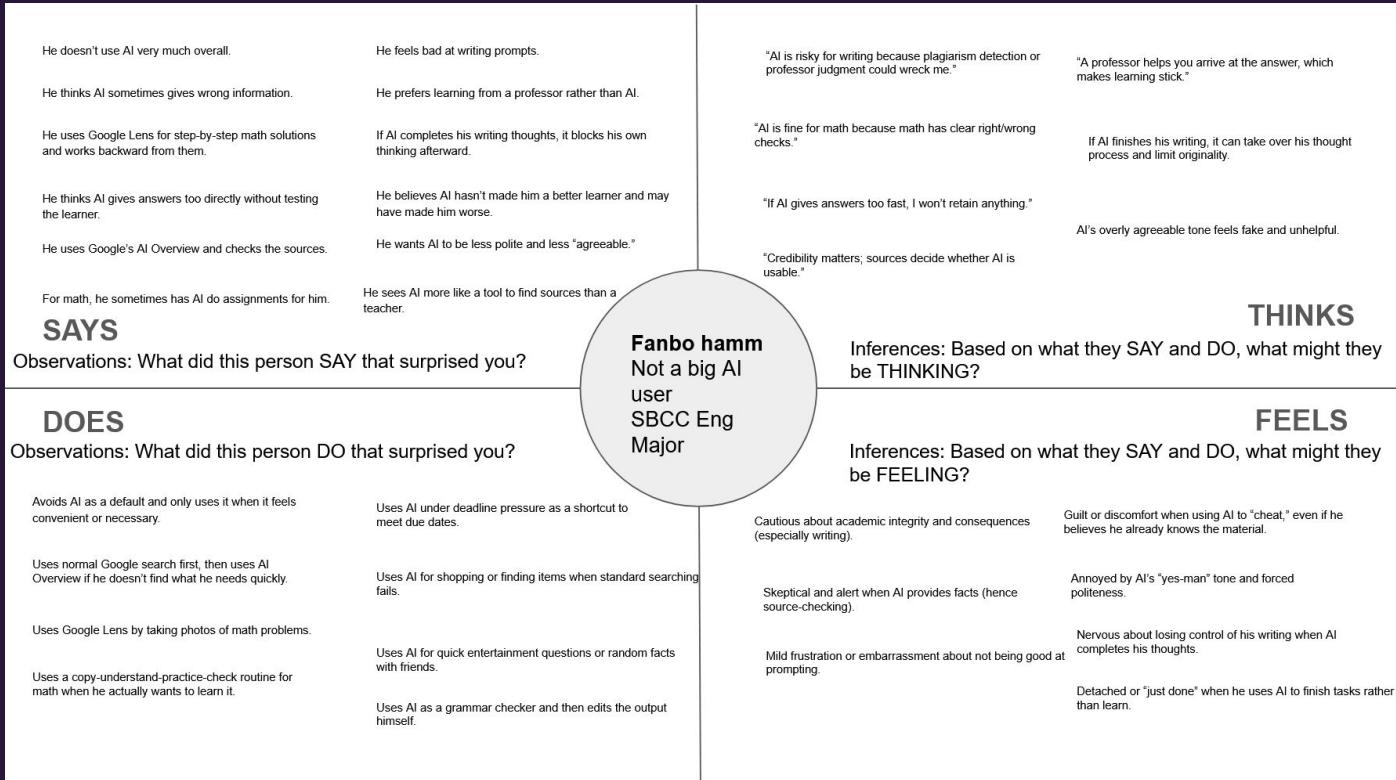
# The Interviews

# Our Interview with Fanbo at Starbucks

- Fanbo says he doesn't use AI much
- He checks the sources of AI results
- He views AI as more of a tool to find sources than a teacher
- He doesn't believe AI has made him a better learner



# Empathy Map





# Key Insights

## Dislikes writing prompts

Prompt writing needs to be easier or mitigated.

**He uses Google Lens for step-by-step math solutions and works backward from them.**

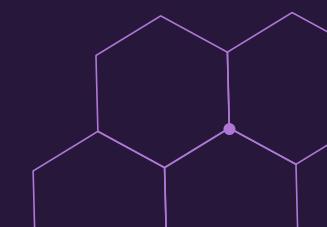
AI should stimulate users to discover and research on their own.

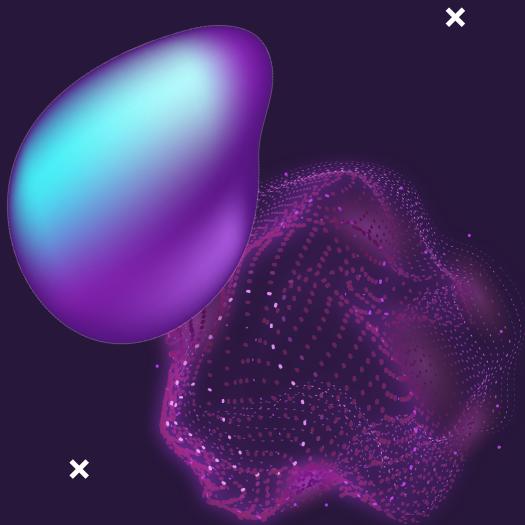
**He thinks AI sometimes gives wrong information.**

AI needs to be easily verifiable and more accurate.

**He thinks AI can make learning harder if you overuse it.**

AI should be moderated or be somewhat detached from the user.



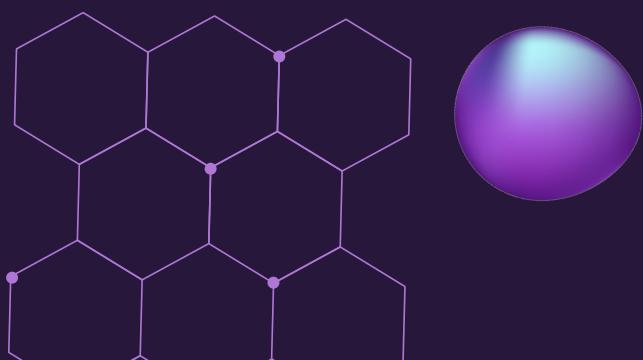


“A professor helps you arrive at the answer, which makes learning stick.”

“Polite, agreeable AI behavior is annoying and makes it feel less honest.”

“The ‘best’ learning tool should challenge me, not flatter me.”

**—Fanbo**



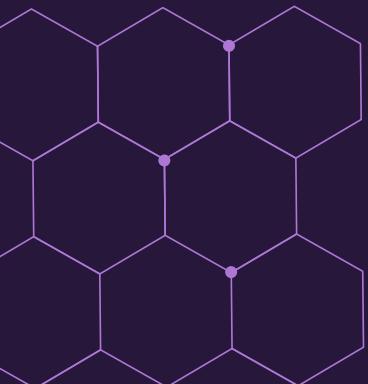
# Takeaways

## **AI is cumbersome to use.**

Prompt writing is too much of a necessary skill for AI to be used for learning, leading to frustration and less learning.

## **AI doesn't stimulate the user enough.**

AI is too much of a "yes man", and doesn't inherently prompt the user to figure problems out on their own. It gives answers too directly. It's also not very reputable.



x

# Our Interview with Jane at Starbucks

- Jane's first instinct *isn't* AI
  - He doesn't trust it by default
  - Needs citations as proof
- He's frustrated and self-conscious by prompting
- He feels that you don't actually retain info, and that it's too polite



x



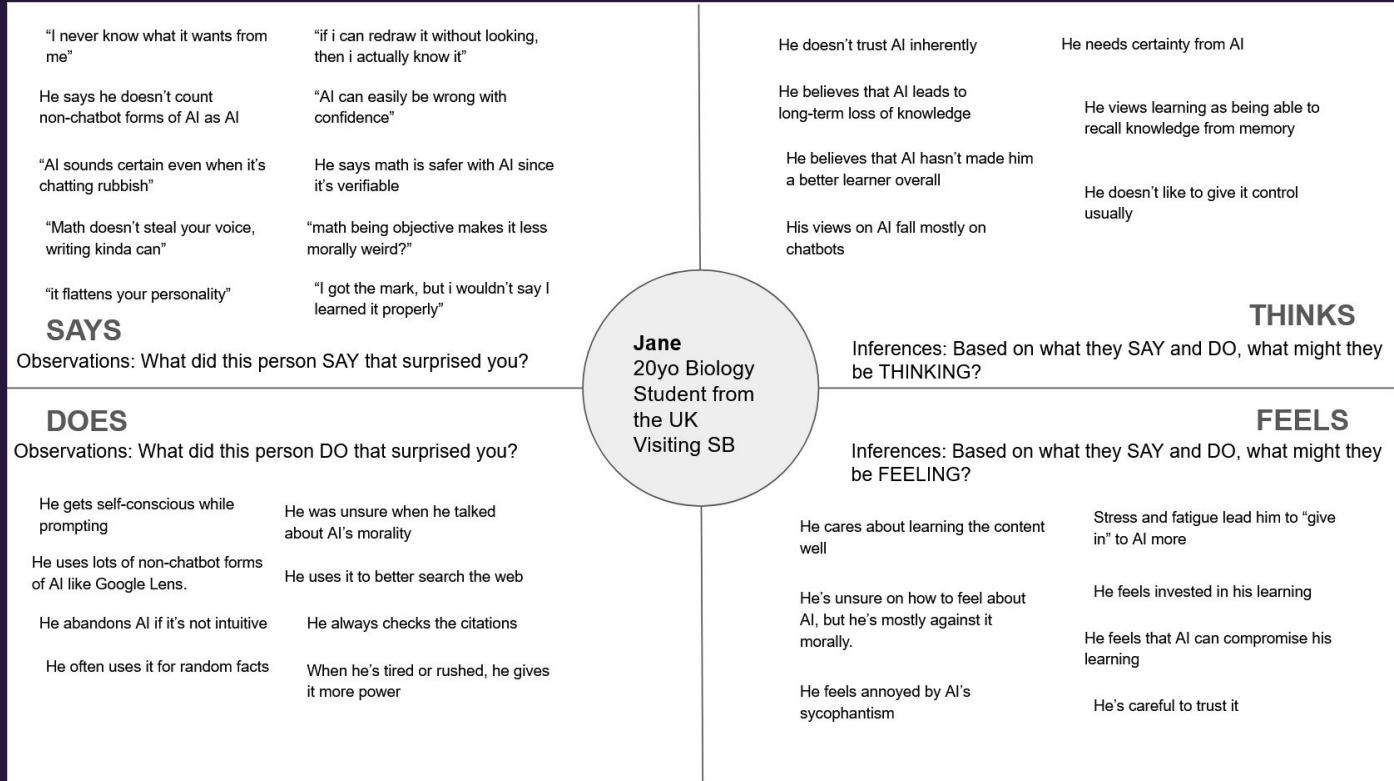
x

# Our Interview with Jane at Starbucks

- He uses Google Lens to help sometimes
  - Works *backwards* from the solution
- He uses it when he's feeling rushed
- He thinks it should be more of a librarian



# Empathy Map



# Key Insights

## **ChatGPT tutoring is what he doesn't like**

Effective AI tutoring needs to feel more natural

### **An AI “report” on a subject led to worse retention**

AI can't simply give a report – it needs to work with the user

## **It's too polite and not challenging enough**

AI needs to be less sycophantic and more divisive

## **AI use derails his chain of thought**

AI needs to respond in a manner that supports the users' thought process instead of taking over



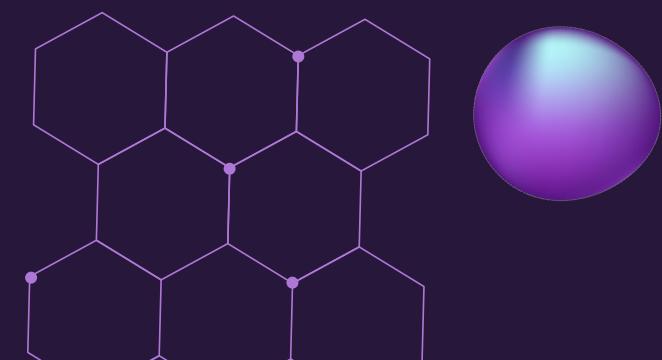
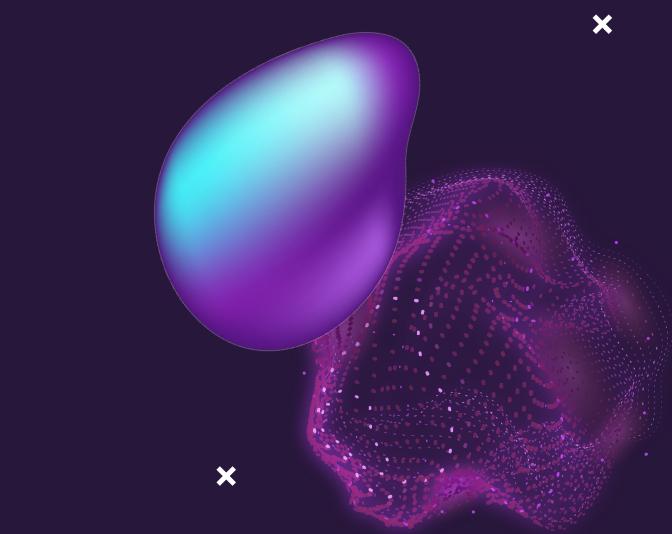
“It should ask, ‘Ok, what have  
you tried?’”

x

“AI just dumps the solution and  
you feel clever for 10 seconds  
and then you forget.”

—Jane

x



# Takeaways

**AI needs to appear in a way that supports a user's thought process**

AI can't simply take over the user's thinking.  
It needs to prompt and support their thinking.

**AI needs to be more natural.**

Prompting an LLM is far too unintuitive. AI tools like Google Lens, which use photos, are far more intuitive and should be modeled after.

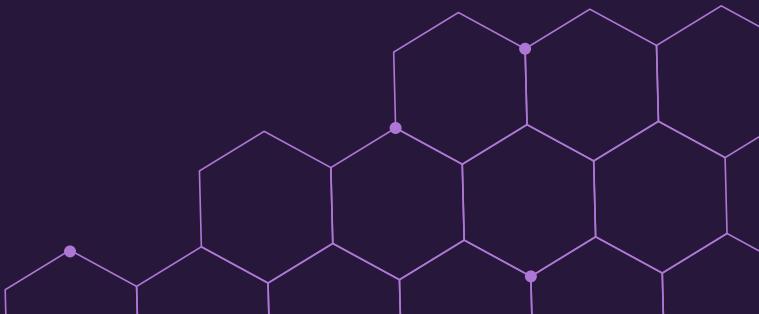
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# Our Interview with Sam at Cafe

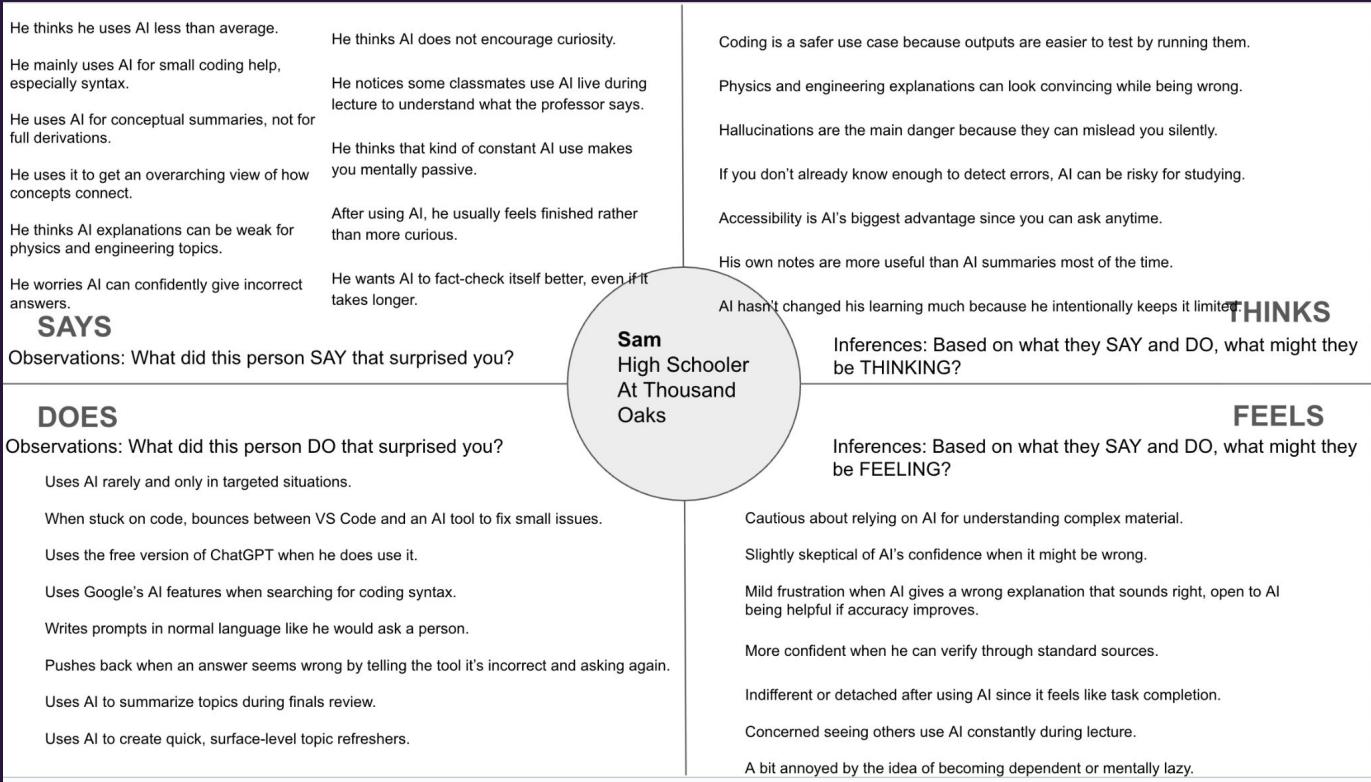
*takeaways/insights/apparatus/person  
interviewing*



x



# Empathy Map





# Key Insights

## Uses AI as a micro-assistant

not as a tutor for learning core engineering content.

## Trust is bottleneck

Verifies with Google or own knowledge

## Concept maps only

Wants relationships, not step-by-step derivations

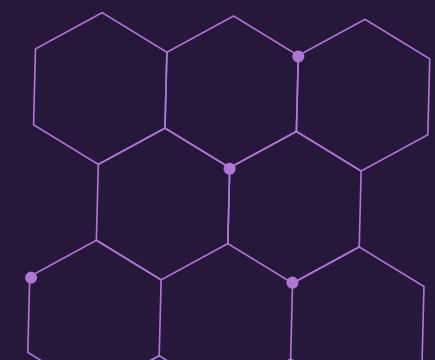
## Curiosity shuts down

Constant AI use makes learning passive



“Probably some way to fact check itself, I would be willing to wait longer for a more accurate answer.”

—Sam



# Takeaways

## ***Takeaway #1***

Design AI to act like a coach for understanding: give conceptual roadmaps, hints, and relationships between ideas, but avoid doing the actual derivations or full solutions by default.

## ***Takeaway #2***

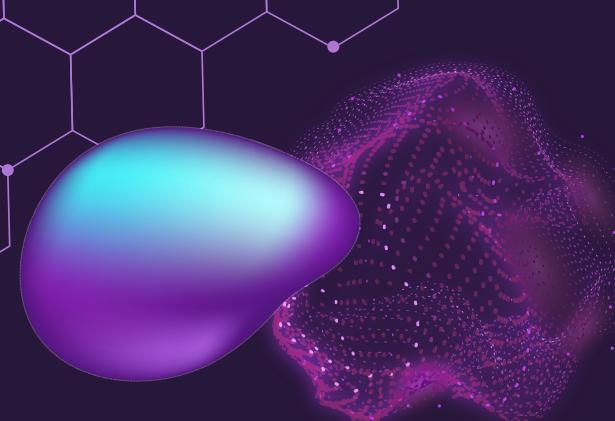
Build trust features into the learning flow. Show where claims come from, encourage quick verification, and reduce hallucinations even if it slows response time.

# Results

## What we've learned



\*



\*

\*



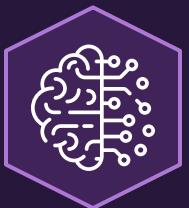
# Key Learnings

x



## AI needs to be more stimulating

AI is too sycophantic and not challenging enough. It needs to be able to offend or challenge the user. It needs to guide the user through learning, rather than solving problems for them.



## AI needs to be more natural

Prompt engineering and interacting with AI through text is cumbersome and frustrating. Forms of AI like Google Lens are intuitive and easy, and should be emulated.

x



## Trust in AI beats speed

A fast answer isn't helpful if it can't be verified, because confident hallucinations can mislead studying. The tool should prioritize accuracy with built-in fact-checking or clear grounding, even if responses take longer, and support quick cross-checking.

# CONTENTS OF THIS TEMPLATE



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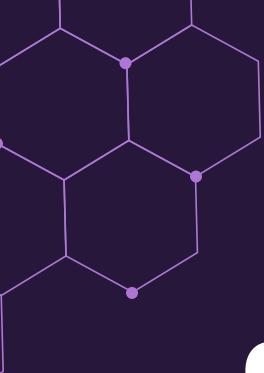
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## 02 **MAJOR REQUIREMENTS**

You can describe the topic of the section here

## 03 **PROJECT GOALS**

You can describe the topic of the section here

## 04 **SNEAK PEEK**

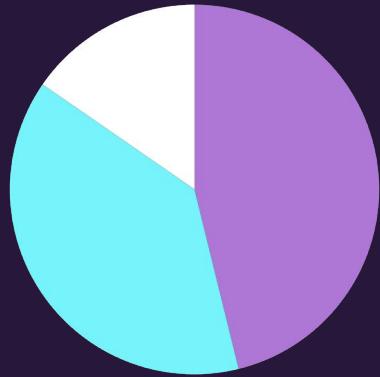
You can describe the topic of the section here

## 05 **PROJECT STAGES**

You can describe the topic of the section here

# OUR COMPANY

Mercury is the closest planet to the Sun and the smallest one in the Solar System. This planet's name has nothing to do with the liquid metal, since Mercury was named after the Roman messenger god



\$10,000,000  
0



**ASSEMBLE**

# BUDGET

**46% MARS**

Mars is cold

**38% VENUS**

Venus is hot

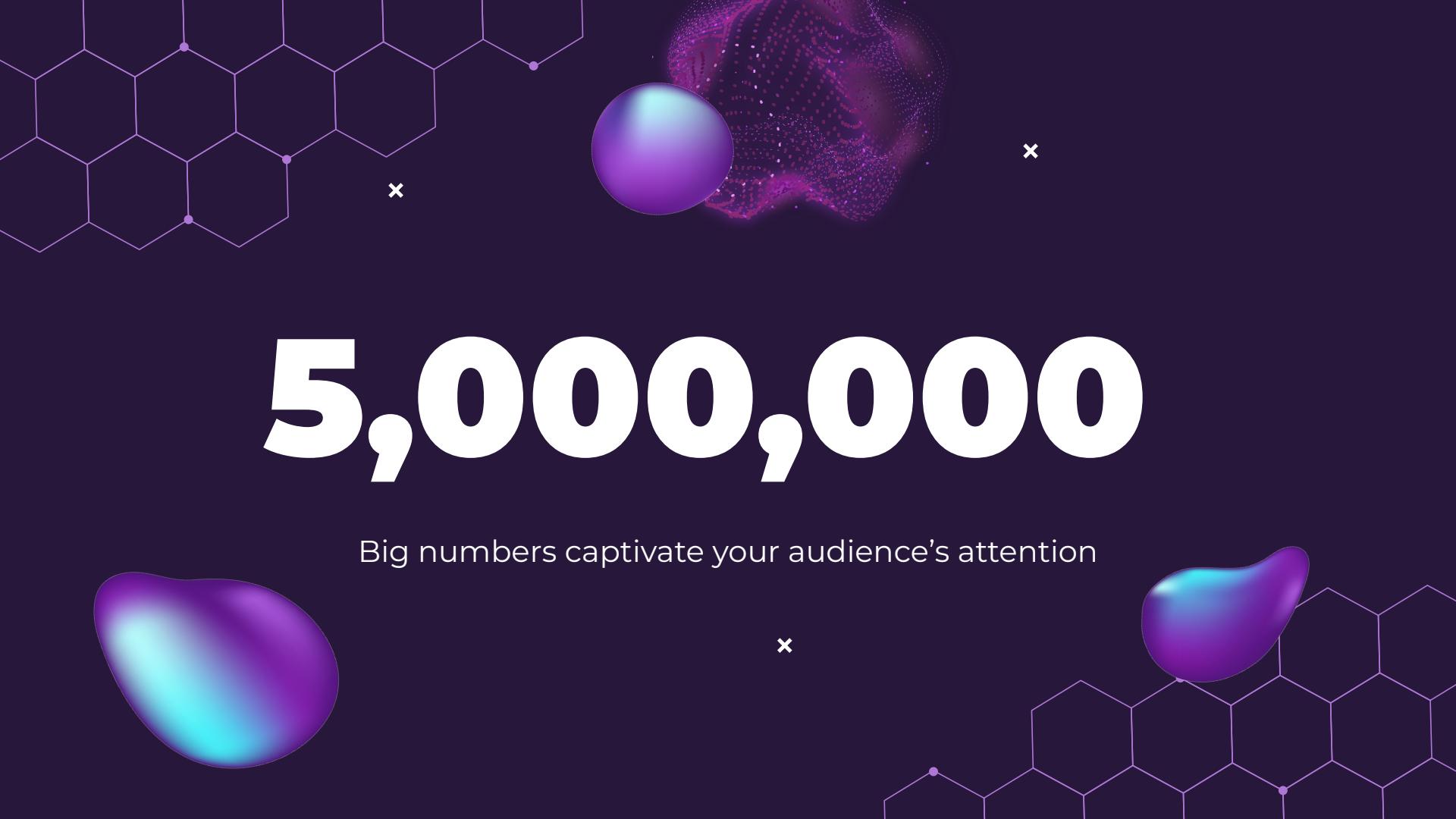
**15% JUPITER**

Jupiter is big

**BUILDING**



Follow the link in the graph to modify its data and then paste the new one here. [For more info, click here](#)



**5,000,000**

Big numbers captivate your audience's attention

# **9h 55m 23s**

Jupiter's rotation period

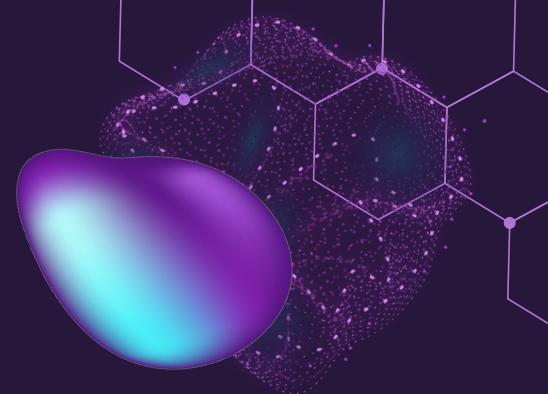


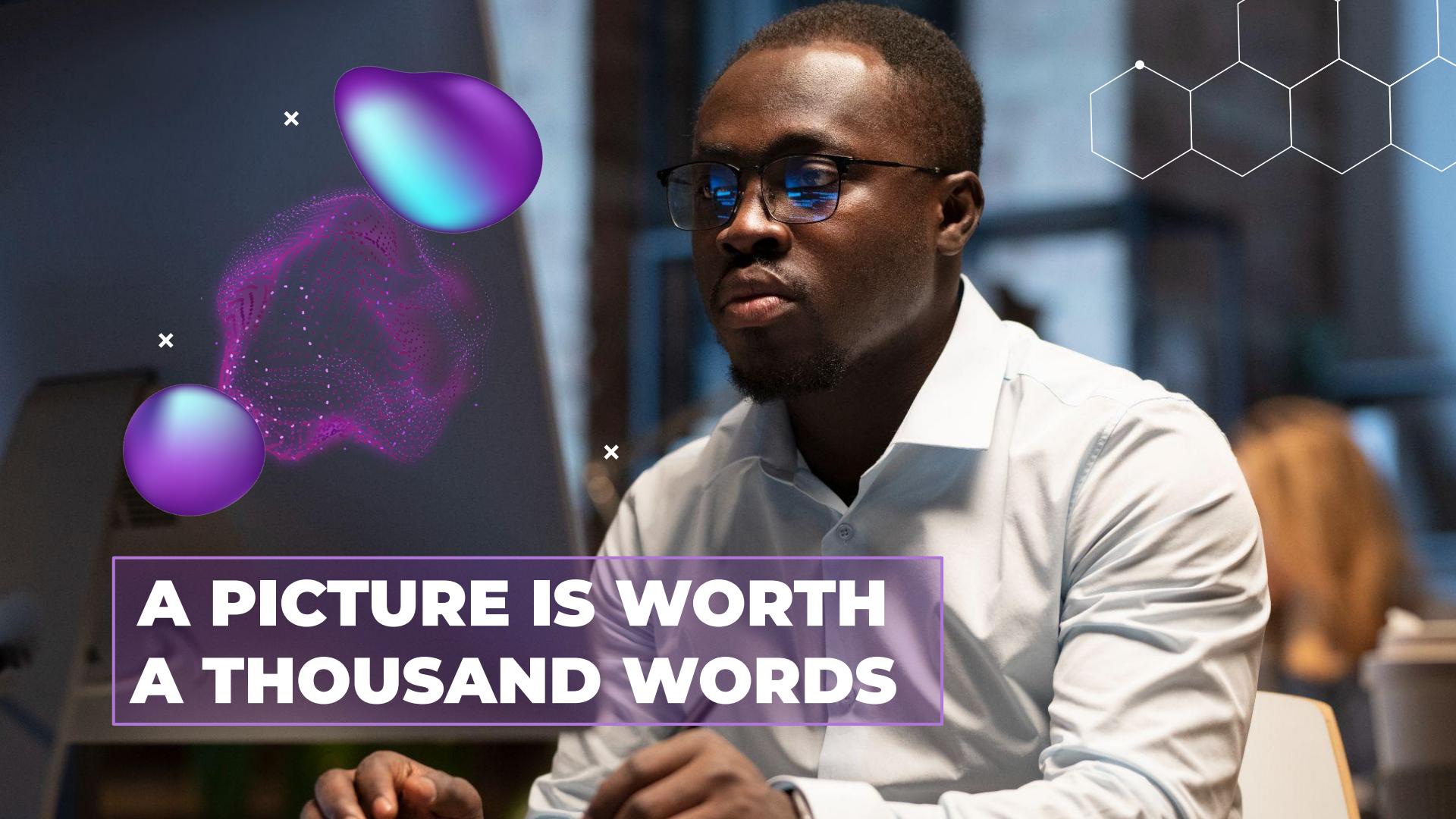
# **333,000**

The Sun's mass compared to Earth's

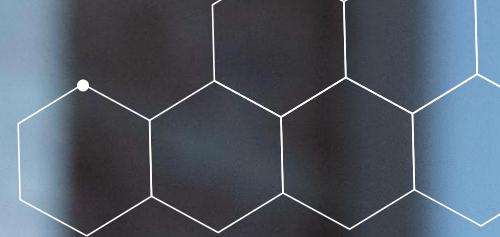
# **386,000 km**

Distance between Earth and the Moon





A PICTURE IS WORTH  
A THOUSAND WORDS



# OUR NUMBERS



## MANPOWER

Mercury is the closest planet to the Sun and the smallest of them all



## DEVELOPMENT

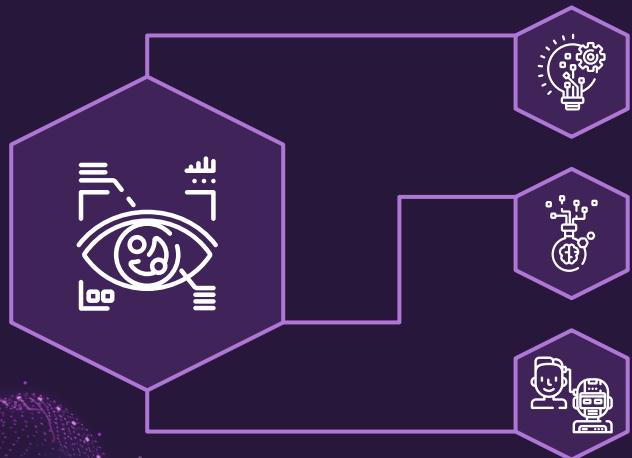
Venus has a beautiful name and is the second planet from the Sun



## EXPANSION

Despite being red, Mars is actually a cold place. It's full of iron oxide dust

# PROJECT GOALS



**GOAL 1**

Mercury is the closest planet to the Sun

**GOAL 2**

Venus is the second planet from the Sun

**GOAL 3**

Earth is the third planet from the Sun



# PREDICTED RESULTS



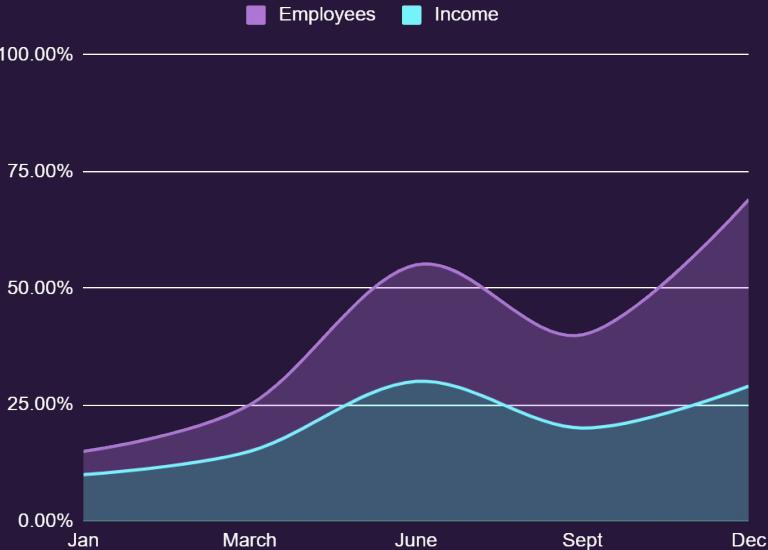
**300**

New employees next year



**\$30,000**

Expected income for 20XX



Follow the link in the graph to modify its data and then paste the new one here. **For more info, click here**

# DESKTOP MOCKUP

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## ARTIFICIAL INTELLIGENCE (AI)

TECHNOLOGY CONSULTING

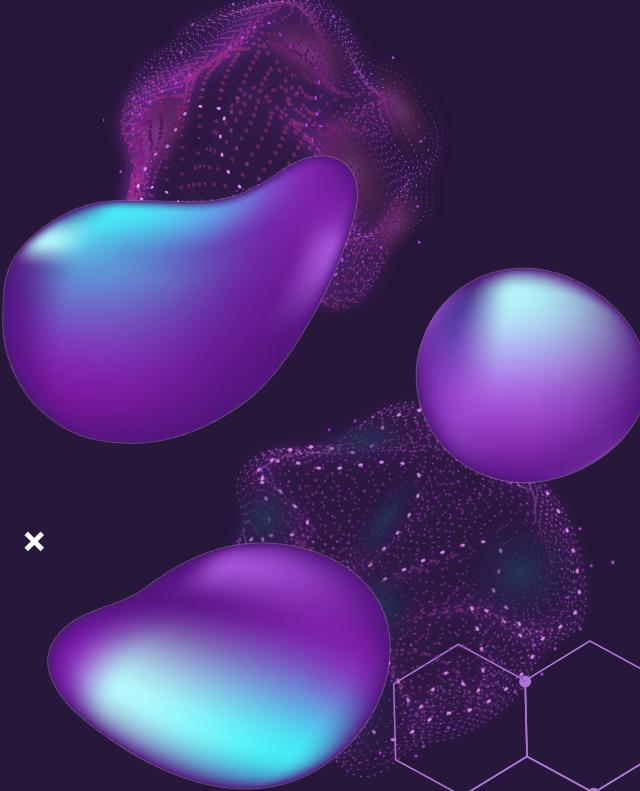
Here is where your presentation begins

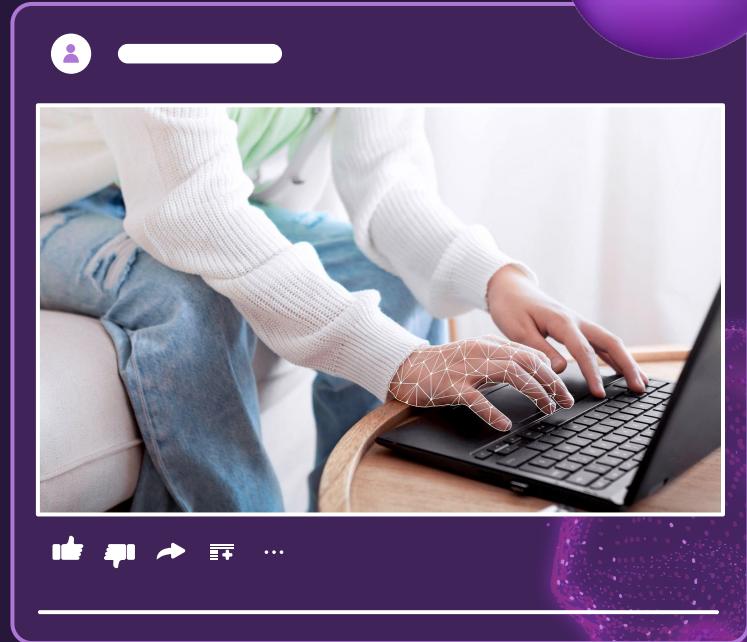




# SNEAK PEEK

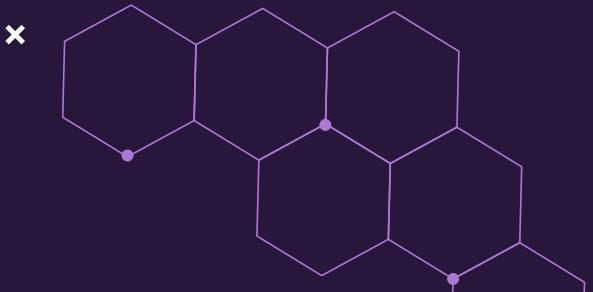
Mercury is the closest planet to the Sun and the smallest one in the Solar System—it's only a bit larger than the Moon. The planet's name has nothing to do with the liquid metal, since Mercury was named after the Roman messenger god





# SNEAK PEEK

You can replace the image. Just right-click on it and select “Replace image”



# **TYPES OF AIs**

<b>NAME</b>	<b>TYPE</b>	<b>FUNCTION</b>
My Journey	Artistic	Creates images
Super Desk	Writer	Creates texts
Solver	Mathematician	Solves complex problems
Develop AI	Programmer	Programs web pages

# PROJECT STAGES

x

Venus is the second planet from the Sun

Despite being red, Mars is very cold

Jupiter was named after a Roman god



x

## STAGE 1



## STAGE 2



## STAGE 3



x



# TIMELINE

**DAY 1**

Despite being red,  
Mars is a cold place



**DAY 2**

Earth is the planet  
with life



**DAY 3**

Jupiter doesn't  
have a solid surface



**DAY 4**

Saturn is a  
ringed planet



x

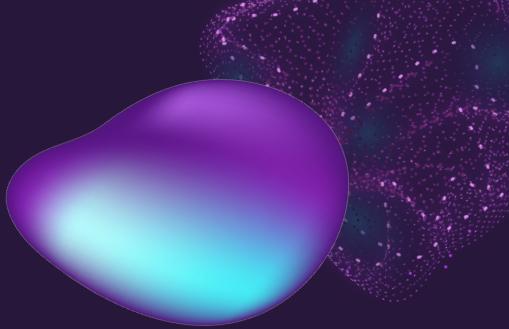
x

x



x

# OUR PARTNERS



## JOHNSON

The Moon is Earth's  
only natural satellite



## TECH PEK

Earth is the planet  
where we all live

x

## DOE'S

Mars was named  
after a god

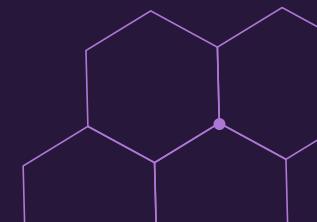
## PETPER

Jupiter doesn't have  
a solid surface

x

## ENGEEN

Saturn was named  
after a Roman god



## MERIDIAN

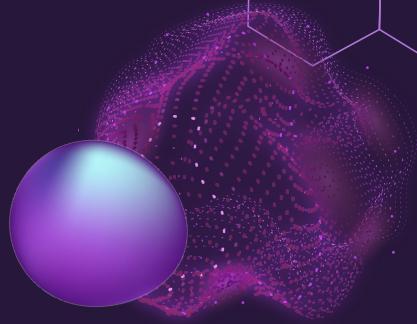
Neptune is far away  
from us

# OUR LOCATION



**SILICON VALLEY,  
SF**

Despite being red, Mars is actually a cold place. It's full of iron oxide dust, which gives the planet its reddish cast



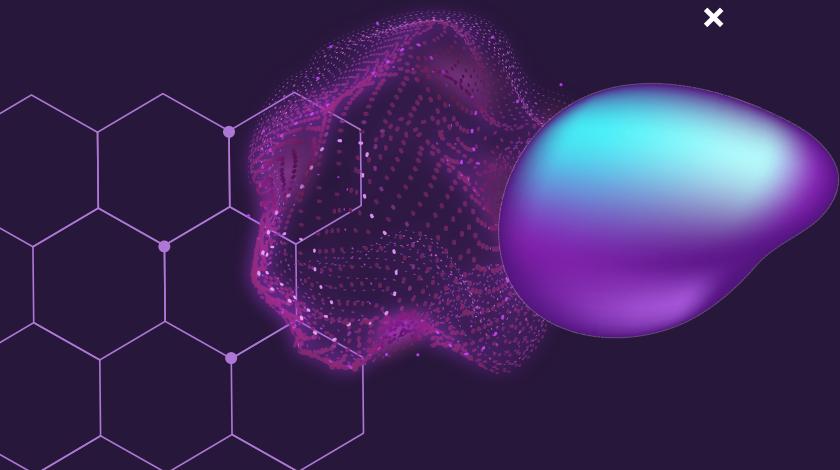
# OUR TEAM



## TIMMY JIMMY

You can speak a bit about  
this person here

x



## DANA JONES

You can speak a bit about  
this person here

x



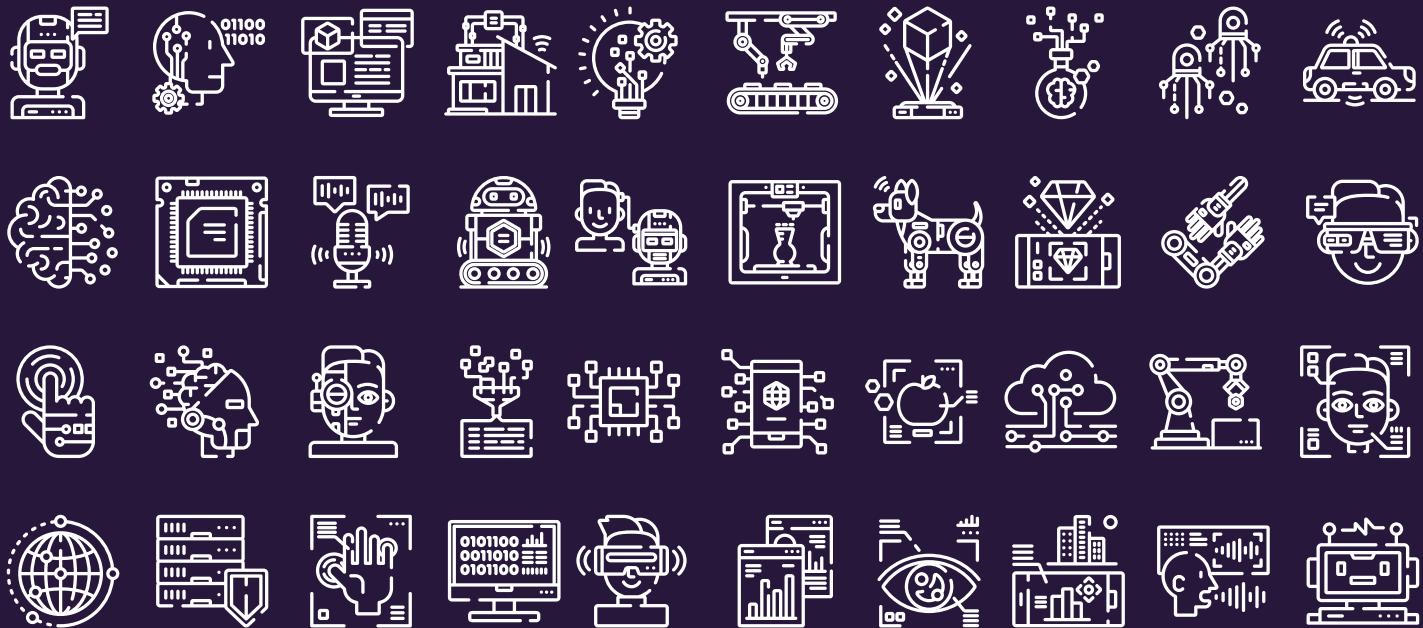


# ICON PACK

x



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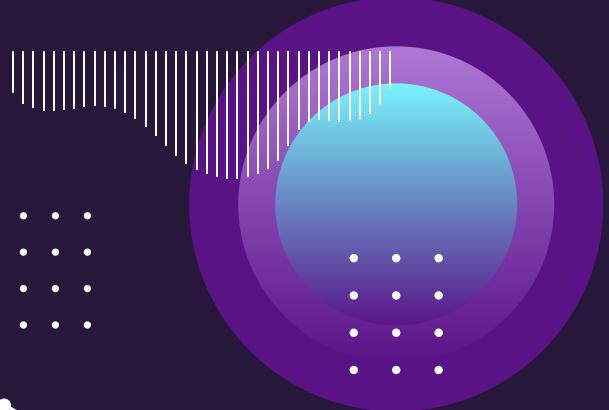
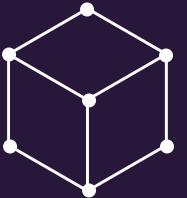


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## ICONS

- ◆ [Icon pack: Artificial intelligence](#)

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- ◆ [Male technician repairing computer motherboard on wooden desk](#)
- ◆ [Close up smiley man with glasses](#)
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Pana



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Bro



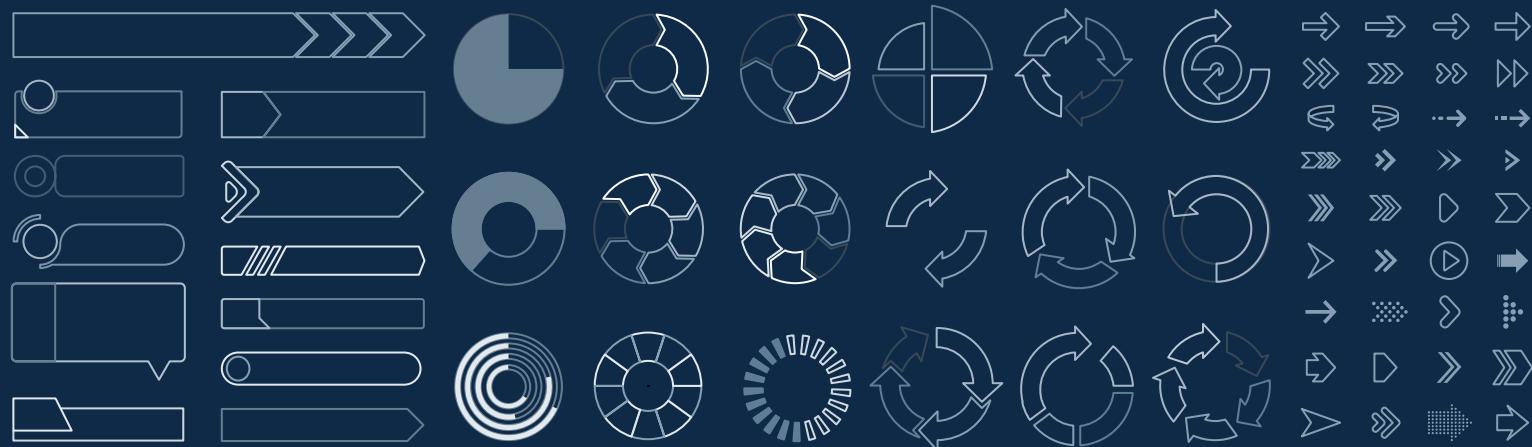
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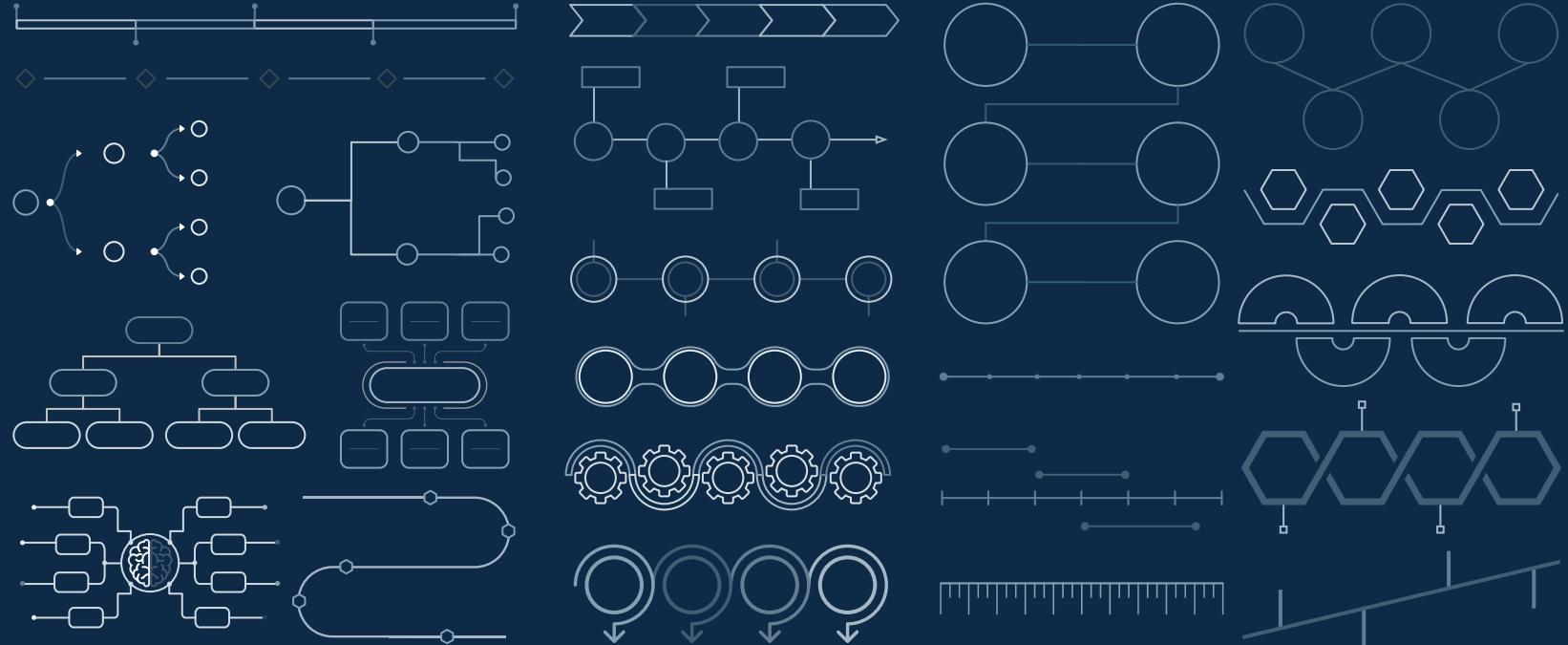
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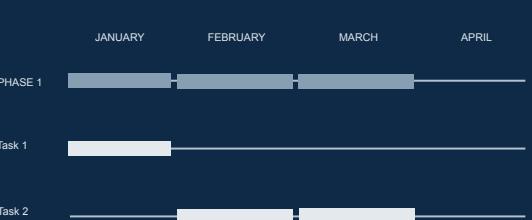
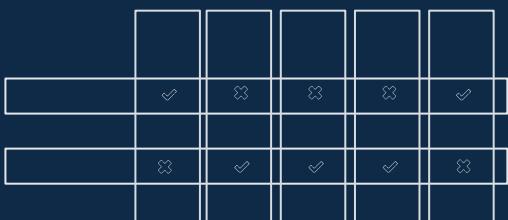
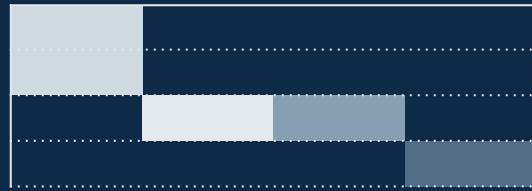
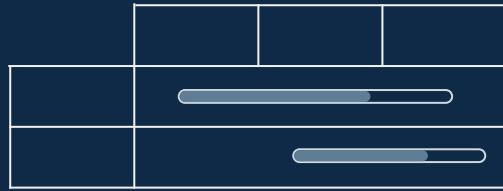
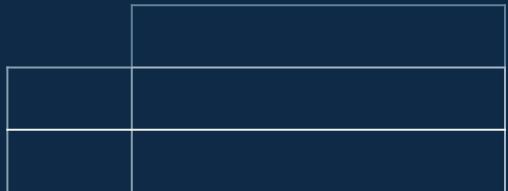
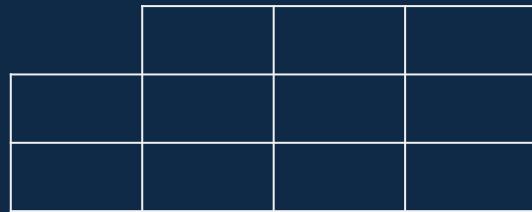
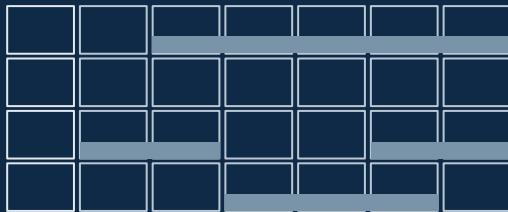
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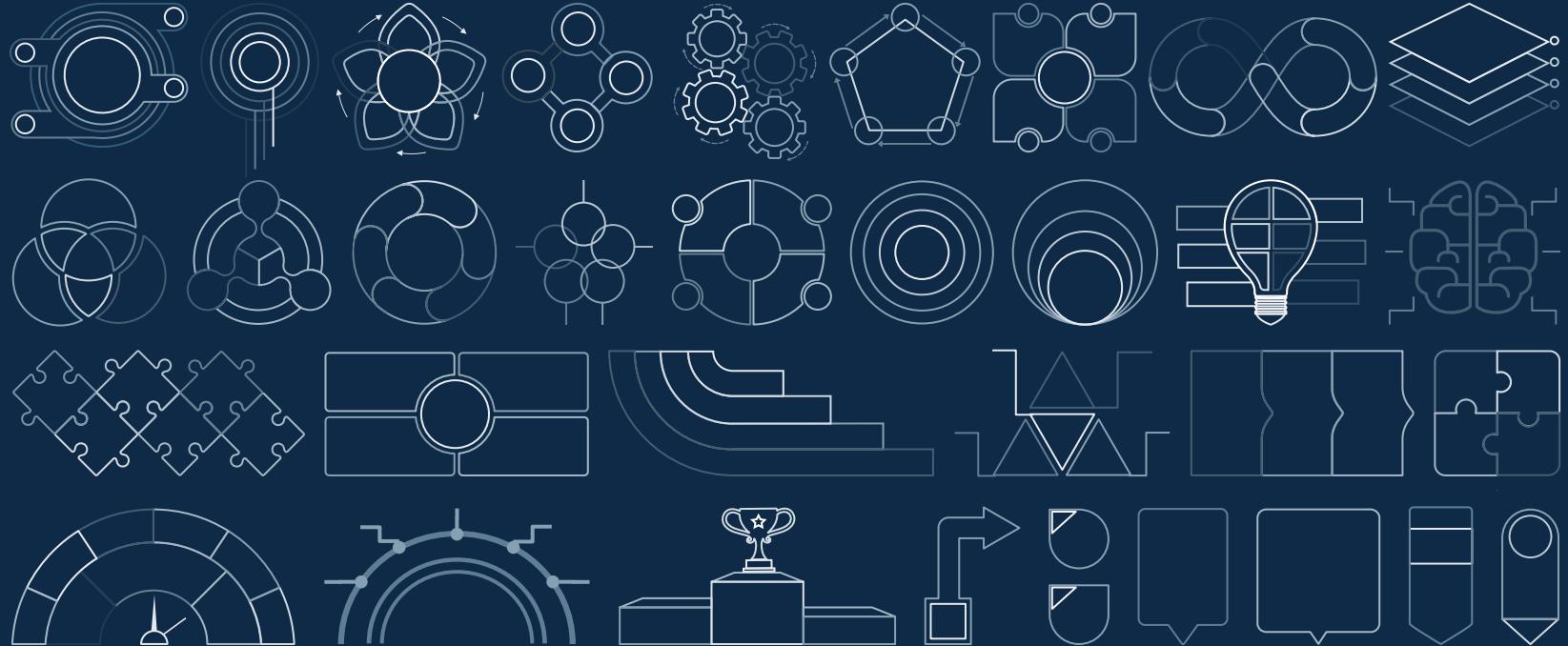
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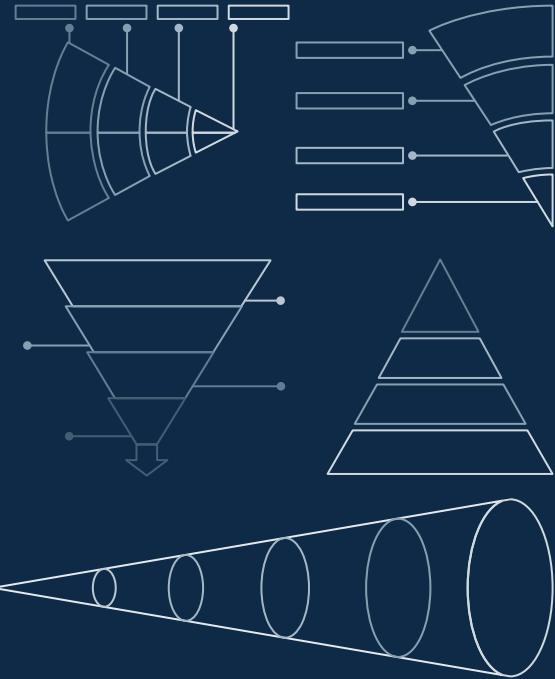
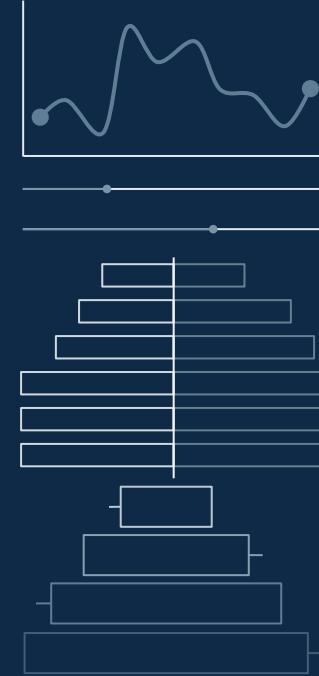
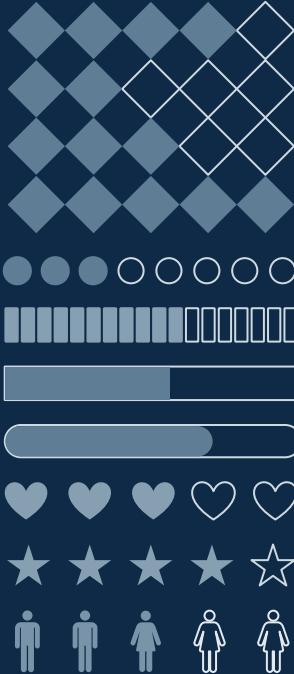
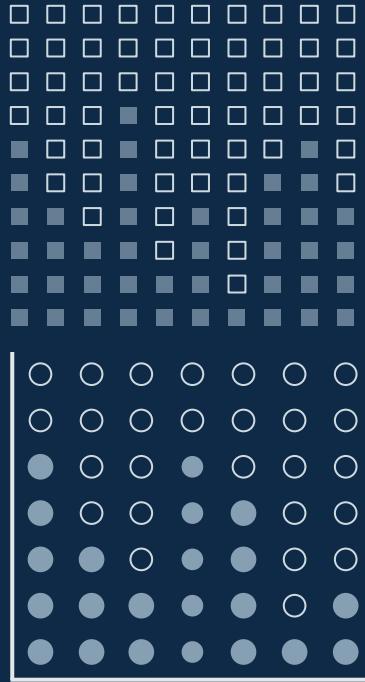












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You can **change the stroke and fill color**; just select the icon and click on the **paint bucket/pen**.

In Google Slides, you can also use **Flaticon's extension**, allowing you to customize and add even more icons.



# Educational Icons



# Medical Icons



# Business Icons



# Teamwork Icons



# Help & Support Icons



# Avatar Icons



# Creative Process Icons



# Performing Arts Icons



# Nature Icons



# SEO & Marketing Icons



