

# How I Help Computers Stay Organized

CAREER DAY 

Hello, Wildcats! My name is **INDIRA ALLA**. I am a **Data Engineer**, and today I'll show you how I help computers organize information — just like organizing your toys!






# What Is Data?

Data means information. Data is everywhere — even about you!

 Your Name

Who you are

 Your Birthday

When you were born

 Favorite Animal

What you love

 Library Books

What you read

  What is YOUR favorite animal?



# How Schools Use Data

Data Helps With School Lunch!

Every day the school needs to know:

- 🍕 Who is eating lunch?
- 🥛 How many milk cartons are needed?
- 🍎 How much food should be prepared?
- 👧👦 How many students are at school today?

Computers help keep track of this information.

That's data!

## What if there was no data?





- Too much food might be made.
- Not enough lunches might be available.
- The school would have a harder time planning.



# How Schools Use Data (Library Example)

Data Helps in the School Library!

The library uses data to keep track of:

-  Which books are available
-  Who borrowed a book
-  When the book is due back
-  Which books are popular

Computers help the librarian organize all this information.

That information is called data.

## Why is this helpful?

**Without data:**

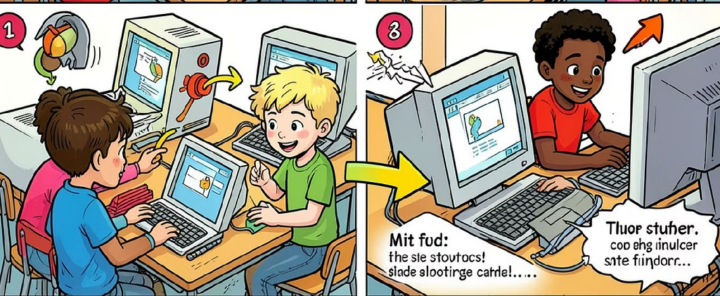
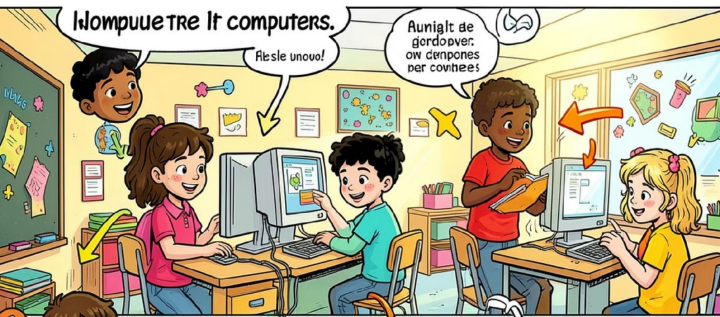
- Books could get lost
- It would be hard to find a book
- Students might not return books on time

**With data:**

- Everything is organized
- Books are easy to find
- Everyone gets a turn



 If you could borrow any book from the library, what would it be?



# Activity 1: Human Computer



## Follow the Instructions

You are all computers. I am going to give you instructions.

Computers follow step-by-step instructions, and your job is to help write those instructions correctly.

# My Job Is Like Organizing Toys



## Messy = Hard to Find

When all your toys are mixed together, finding one is really hard!

## Organized = Easy!

When toys are sorted into bins, you find exactly what you need.

- ❏ **A Data Engineer does the same thing** — organizing information so computers can find it fast!

# What Do I Do Every Day?

Here's what I use to do my job:

## Laptop & Keyboard

I write instructions for computers.

## Headset

I talk with my team.

## Computer Programs

I use special tools to organize data.

## Team Meetings

I solve problems with others.



# How I Became a Data Engineer

I learned one step at a time — just like you!



## Went to School

Learned math and science.



## Learned About Computers

Discovered how computers think.



## Practiced Problem-Solving

Tried and tried until I figured it out!



## Got My First Job

Started working as a Data Engineer!



# Why Is My Job Important?

People use technology every single day. My job makes sure information gets to the **right place**, safely!

## Families Stay Connected

Video calls and messages work because data is organized.

## Information Moves Safely

Data is protected so private things stay private.

## Businesses Help Customers

Stores and apps work smoothly with good data.

# Wildcat PRIDE and My Job

I use PRIDE in my work every day!



## Positive

I stay positive when solving problems.



## Responsible

I make sure information is correct.



## Inclusive

I work with people from all backgrounds.



## Determined

I keep trying when things are hard.



## Empathy

Technology helps real people.

# Could YOU Be a Data Engineer? ✨



Do any of these sound like you?

- 🧩 You love solving puzzles
- 🏗️ You enjoy building things
- 💡 You love learning new ideas
- 💻 You like using computers
- 😊 You want to help people

✅ If you said YES — a technology career could be for you!

# Thank You, Wildcats! 🐾

## My Favorite Data Facts:



### Internet Data

Every second, the internet creates 2.5 million pieces of data!



### Podcasts

Podcasts use data to remember which episodes you've listened to and suggest new ones you might like.



### Your Phone

It uses data to know where you are.



### Music Apps

They use data to suggest songs you'll love.

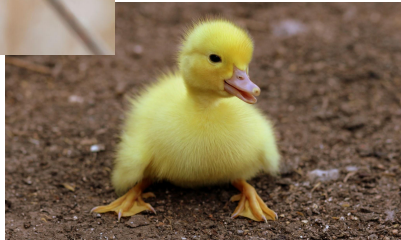
# Data is everywhere, and YOU can be the one to organize it!

Thank you for learning about data engineering with me today. Keep asking questions, keep solving puzzles, and keep dreaming big! ✨



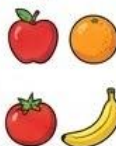
# Activity 2: Data Sorting Game 🎮

How should we organize these?



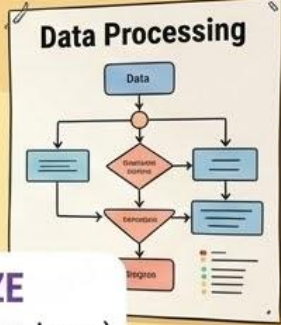
  
**BY SPECIES**  
(e.g., Cats vs. Cows)

**BY SPECIES**  
(e.g., Cats vs. Cows)

  
**BY COLOR**  
(e.g., Red vs. Yellow)



  
**BY SIZE**  
(e.g., Small vs. Large)



First we sort by animal type...

  
Now let's sort by color or size!

Data engineers organize information in different ways depending on the goal.