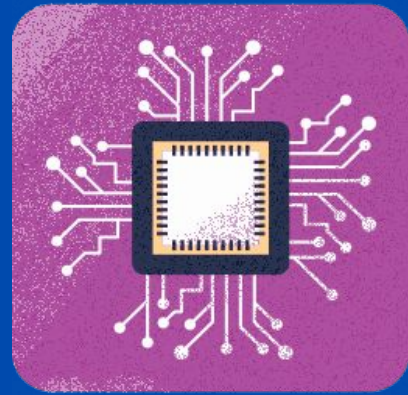




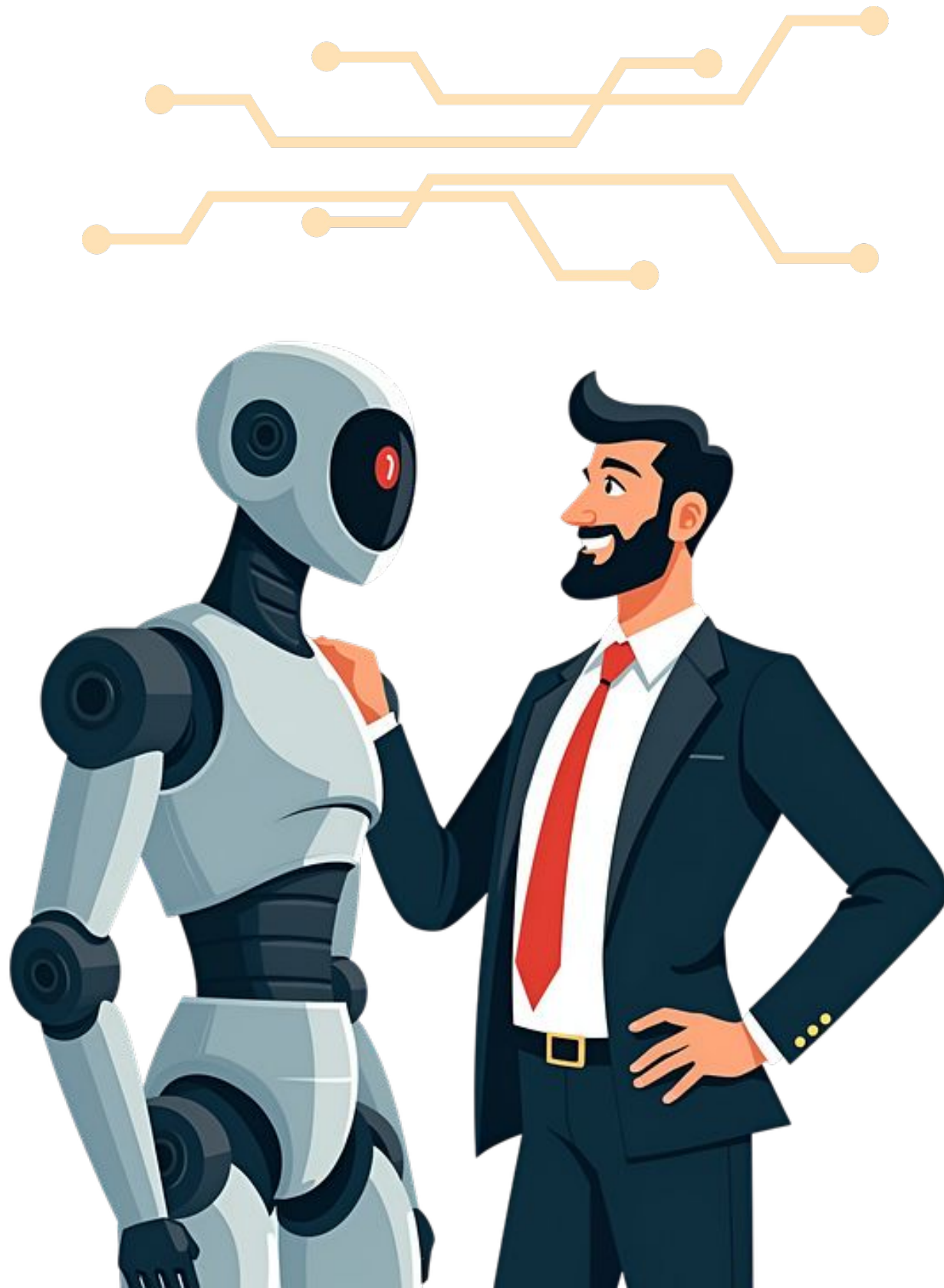
AI Cyber Threats: Deepfakes, Fraud & Misinformation

Dr. Jaskaran Singh

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Introduction to AI

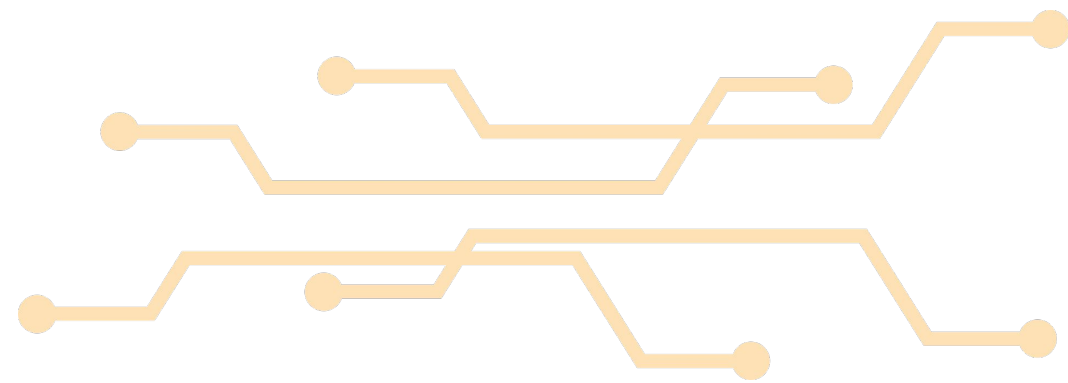
AI = Smart machines that think, learn and make decisions like humans

AI can:

- **Recognize faces**
- **Understand voice commands**
- **Answer questions**
- **Suggest videos or songs**

Examples you already use:

- **Google Assistant / Siri**
- **YouTube suggestions**
- **Face unlock**
- **Chatbots**
- **Self-driving cars**



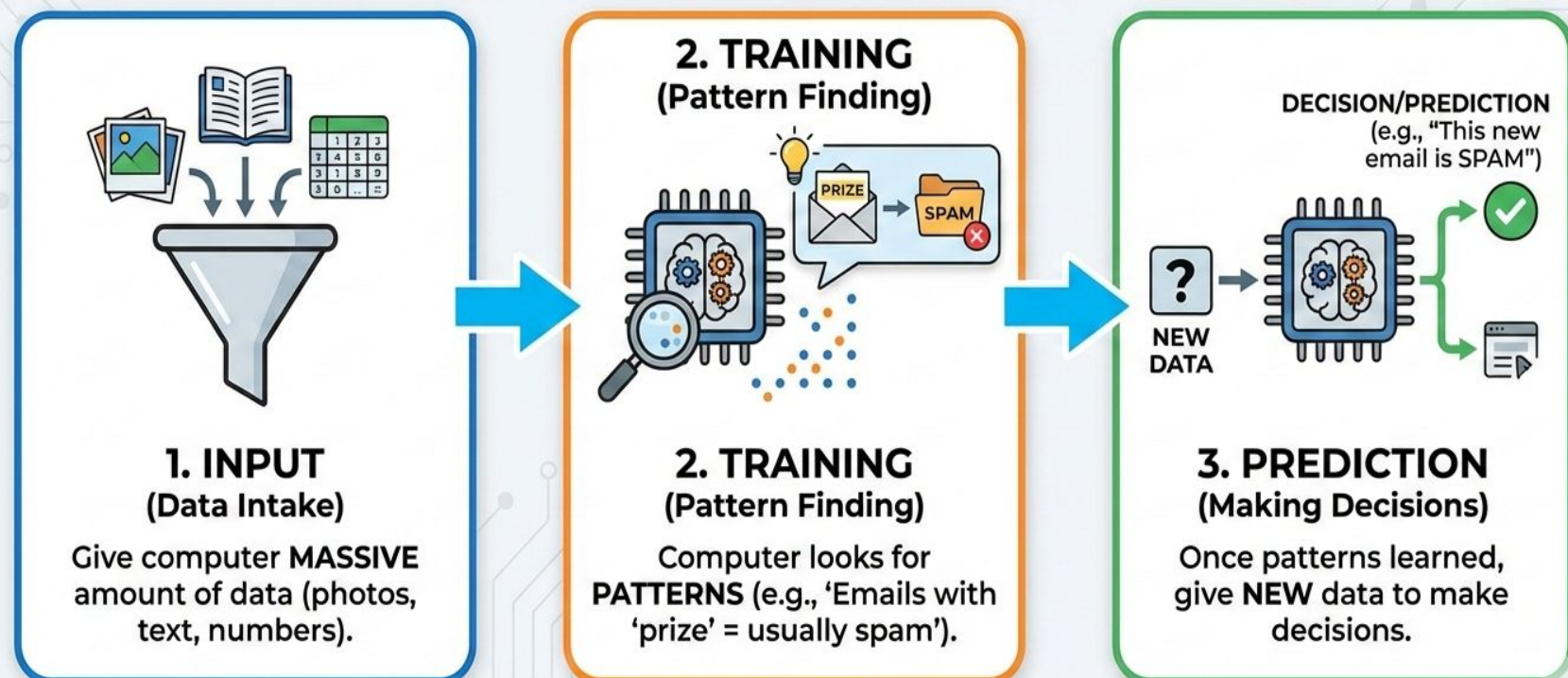
Introduction to AI

Artificial intelligence (AI) is the simulation of human intelligence processes by computer systems.

AI is like teaching a child. Instead of giving it a rigid list of rules, you show it thousands of examples (like pictures of cats), and eventually, it learns to recognize a "cat" on its own, even if it sees a cat it has never seen before.

AI HOW IT WORKS

(The Simple Version)



Good Use of AI

AI helps us in many ways:

In Education

- Smart learning apps
- Online classes
- Doubt solving bots

In Health

- Detect diseases
- Robot surgeries
- Music apps

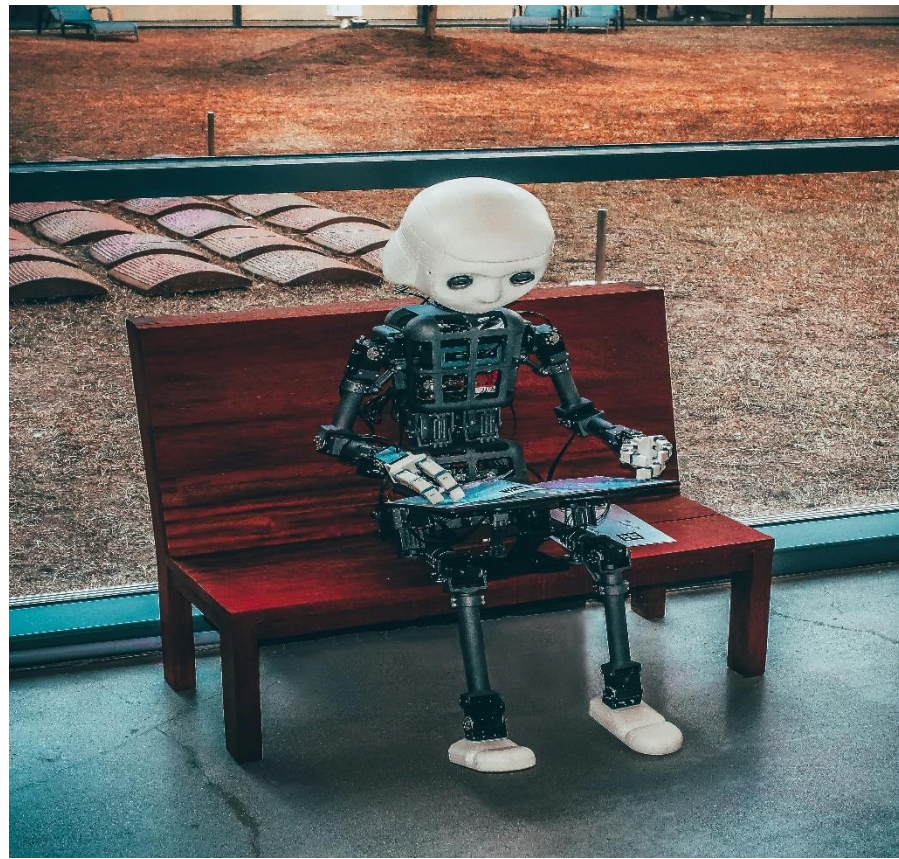
In Daily Life

- Navigation (Google Maps)
- Online shopping suggestions
- Smart homes

In Fun

- Gaming
- Filters & effects
- Music apps

AI makes life faster and easier





But Is AI Always Safe?

Like every technology...

- ◆ Knife can cut vegetables
- ◆ But can also hurt someone

AI can help OR harm

Some people misuse AI for:

- Hacking
- Scams
- Fake videos
- Spreading rumors

These are called **AI Cyber Threats**

AI Cyber Threats



- **Deep fakes**

Fake videos, photos, or voice clips made using AI

- **Online Fraud & Scams**

OTP scams, fake prizes, phishing links, money theft

- **Misinformation / Fake News**

False news or rumors spread quickly on social media

- **AI Hacking & Malware**

Smart viruses, bots, and hacking tools that steal data

What is a Deepfake?

Deepfake = Deep Learning + Fake

- AI creates fake videos or photos
- Person looks real but it's fake!
- Face or voice can be changed

AI can:

- Change faces
- Copy voices
- Make people say things they never said



ORIGINAL

DEEPAKE

Which One is Real ?



Dangers of Deep fakes & How to Stay Safe

Deep fakes can cause:

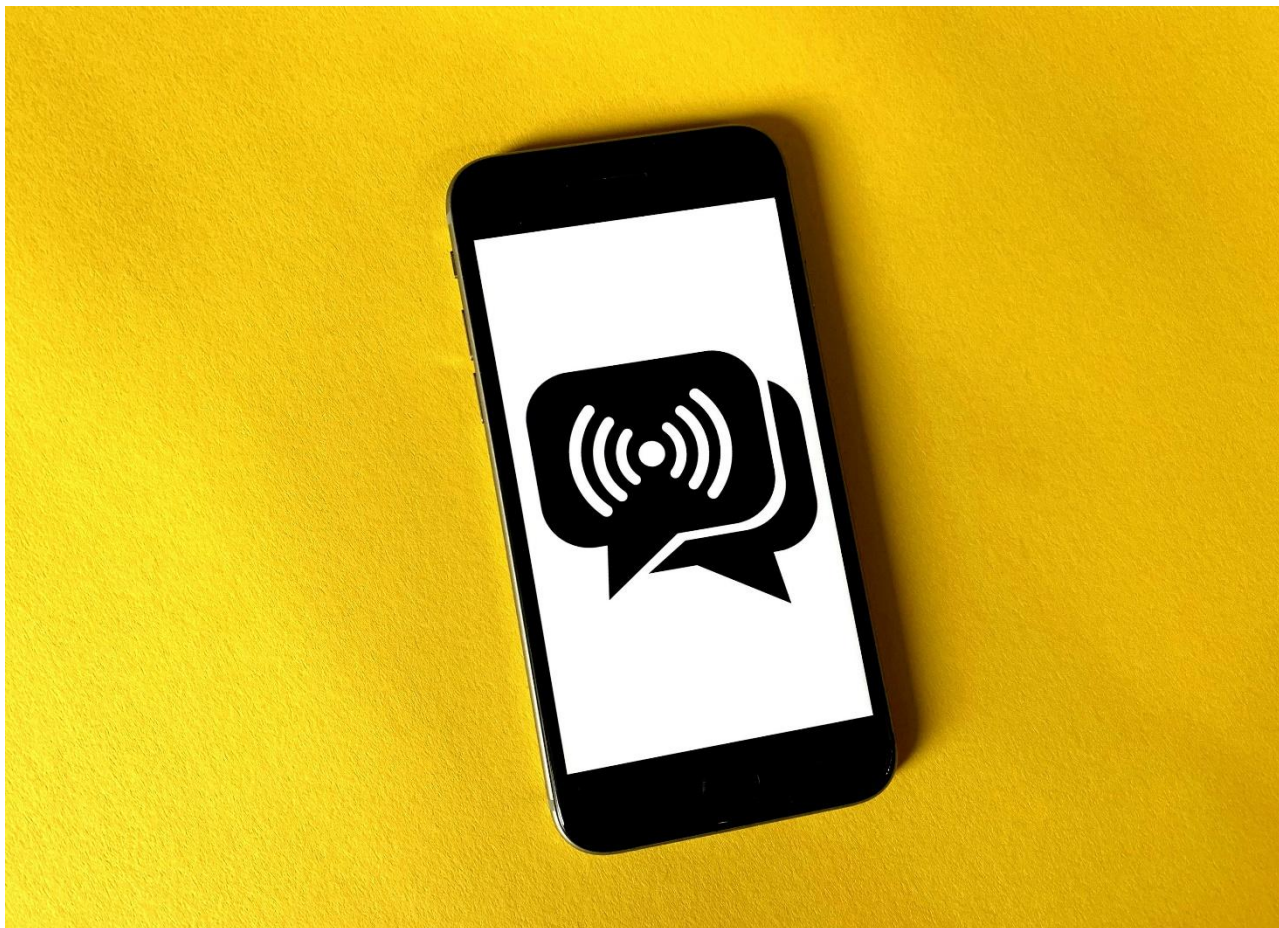
- Fake news spread
- Bullying & blackmail
- Reputation damage
- Political confusion
- Financial fraud
- Loss of trust

Ways to Stay Safe:

- Check source
- Don't share quickly
- Verify from news
- Ask parents/teachers



Seeing is NOT always believing now



Common Online Scams

1. Lottery Scam

“You won ₹10 lakh! Pay ₹1000 to claim”

2. OTP Scam

“Share OTP to verify account”

3. Fake Job Offer

“Pay registration fee”

4. Fake Shopping Website

Cheap products → Money gone

5. AI Voice Scam

Fake call sounding like your parents asking money

MISINFORMATION

Misinformation = Wrong or false information shared online

Examples:

- Fake exam news
- Rumors
- Edited images
- False health tips
- Fake celebrity death news
- Spreads very fast on:
 - WhatsApp
 - Instagram
 - YouTube
 - Telegram



MISINFORMATION

Why Fake News Spreads Fast?

- Don't check facts
- Forward quickly
- Trust friends blindly
- Get emotional

How to Detect Fake News?

- Who posted it?
- Is it from official website?
- Is the headline shocking?
- Can I verify from Google?
- Is image edited?

Why is Fake News Dangerous?

- Check website
- Google search
- Check date
- Ask teachers/parents
- Use trusted sources



SAFETY

- Use strong passwords
- Don't share OTP
- Don't click unknown links
- Don't download unknown apps
- Keep accounts private
- Talk to parents/teachers if confused
- Think twice before posting photos

Golden Rules for Students

- Don't trust strangers online
- Don't meet online friends alone
- Don't share personal info
- Don't believe everything you see
- Always report suspicious activity

Be a Smart Digital Citizen

ACTIVITY: SPOT THE SCAM



Spot the Scam!

Which Email Is Fake?

✓ Real

From BankName <support@bankname.com>
Subject: Account Alert

Dear Customer,

Please review and update your account information.
Log in securely to update your information.

Thank you,
BankName Customer Service

[Log In to Bank](#)

✗ Fake

From BankName <bank-support@mailverify.com>
Subject: URGENT ACCOUNT ALERT!!!

Dear Customer,

Your account is locked.
[CLICK HERE](#) to unlock immediately.

Failure to do so will result in permanent
closure of your account.

Bank Support [CLICK HERE](#)

ACTIVITY: SPOT THE SCAM



Spot the Scam!
Which Message is Suspicious?

✓ Safe

Hi! Here's the class notes you missed:
<https://drive.google.com/abcd1234xyz>
10:15 AM

✓ Safe

✗ Scam

URGENT! Your bank account has been locked ⚠
Please update your info:
<http://verify-info-update-secure.com>
10:15 AM

✗ Scam

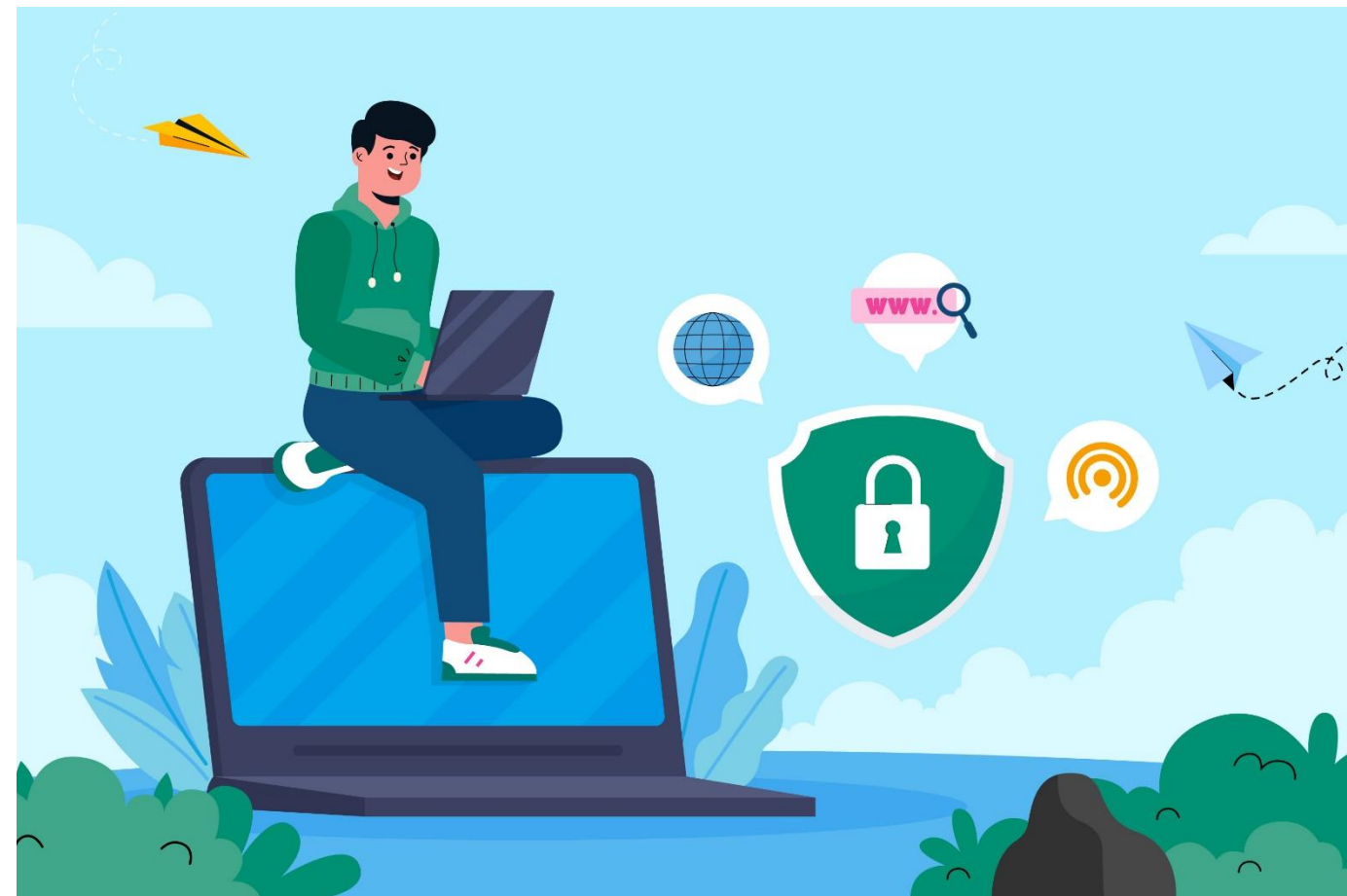
The image shows two smartphone screens side-by-side. The left screen displays a text message with a friendly tone, offering class notes and a Google Drive link. It is labeled 'Safe' with a green checkmark. The right screen displays a text message with an urgent, alarming tone, claiming a bank account is locked and providing a suspicious website link. It is labeled 'Scam' with a red X.



Key Takeaways

- ✓ AI is powerful
- ✓ Use it wisely
- ✓ Stay alert
- ✓ Verify information
- ✓ Protect your data

Smart students = Safe students



Conclusion

Technology is like a superpower.

If used properly → helps us

If misused → harms us

So be:

- Smart
- Careful
- Responsible

- AI is powerful
- Use it wisely
- Stay alert
- Stay safe online

Thank you!

Be a Digital Hero!

