



PINK STEM INC.

**AI STYLIST 101:
FASHION MEETS
PYTHON
EXPLORING
CREATIVITY AND CODE
THROUGH AI & DESIGN**

WHAT YOU'LL LEARN:

- How AI can generate new fashion ideas
- How Python helps “direct” AI creativity
- A mini coding demo: your own AI outfit stylist
- Real-world uses in gaming, shopping, and art





ABOUT PINK STEM

Pink STEM Inc. empowers students through hands-on learning like today's AI + fashion lab. We combine creativity, technology, and career exposure so students see STEM as something they can use right now to build cool things that matter.

**TODAY'S BIG IDEA:
CREATIVITY + CODE = ENDLESS
POSSIBILITIES**



PINK STEM CONTACT INFORMATION

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LESSON INTRO: WHAT IS AN AI STYLIST?

QUESTION:

HAVE YOU EVER WANTED TO DESIGN YOUR OWN OUTFIT WITH AI?

AI TOOLS CAN IMAGINE NEW STYLES BY LEARNING PATTERNS FROM CLOTHING IMAGES. PYTHON LETS US GUIDE THOSE TOOLS TO CHANGE THINGS LIKE:

- COLORS
- TEXTURES
- STYLES
- COMBINATIONS

YOU DON'T NEED TO BE A PRO DESIGNER OR CODER.

IF YOU CAN DESCRIBE WHAT YOU WANT, YOU CAN START BUILDING WITH AI.

THE TECH BEHIND IT (STUDENT FRIENDLY)

FROM THE PRESENTATION:

- AI LEARNS PATTERNS FROM IMAGES
- IT NOTICES SHAPES, OUTFITS, AND STYLES
- PYTHON TELLS AI WHAT TO TRY NEXT
- WE GIVE DIRECTIONS LIKE A DIGITAL STYLIST

REAL-WORLD CONNECTION:

FASHION COMPANIES ALREADY USE AI FOR:

- VIRTUAL TRY-ONS
- OUTFIT RECOMMENDATIONS
- GAME CHARACTER CLOTHING
- PREDICTING TRENDS

MINI DEMO WALKTHROUGH

GOAL: BUILD A BASIC AI STYLIST THAT GENERATES OUTFIT COMBOS.

STEP 1: TELL PYTHON WHAT KINDS OF OUTFITS WE WANT

YOUR SLIDES USE A SIMPLE LIST-BASED SYSTEM.

```
IMPORT RANDOM
```

```
TOPS = ["DENIM JACKET", "GRAPHIC TEE",  
"HOODIE"]
```

```
BOTTOMS = ["JEANS", "SKIRT", "CARGO  
PANTS"]
```

```
SHOES = ["SNEAKERS", "BOOTS", "SANDALS"]
```

```
PRINT("YOUR AI OUTFIT:")
```

```
PRINT(RANDOM.CHOICE(TOPS), "+",  
RANDOM.CHOICE(BOTTOMS), "+",  
RANDOM.CHOICE(SHOES))
```

MINI DEMO WALKTHROUGH

STEP 2: PRESS RUN
PYTHON PICKS ONE ITEM FROM EACH LIST →
YOUR OUTFIT.

MESSAGE FROM SLIDES:
WITH FASHION COMES LOGIC!

GEORGIA STANDARDS ALIGNMENT

ALIGNED TO AI STYLIST LESSON (CREATIVE CODING + ALGORITHMS + DESIGN THINKING).

MIDDLE SCHOOL GEORGIA STANDARDS (6–8)

CSS.CT.6-8.36 — ALGORITHMIC PROBLEM SOLVING

CSS.CT.6-8.37 — CODING CONTROL STRUCTURES; VARIABLES

CSS.CT.6-8.38 — CREATE COMPUTATIONAL ARTIFACTS

CSS.IDC.6-8.18 — RECOGNIZE MULTIPLE APPROACHES

CSS.IDC.6-8.20 — DESIGN, DEVELOP, DEBUG PROGRAMS

CSS.CC.6-8.41–43 — COLLABORATE AND GIVE FEEDBACK

GEORGIA STANDARDS ALIGNMENT

HIGH SCHOOL GEORGIA STANDARDS (9–12)

**CTAE: INTRODUCTION TO SOFTWARE
TECHNOLOGY**

**FOUNDATIONS IN PROGRAMMING,
INTERFACES, DIGITAL IMPACTS.**

HS ALIGNMENT INCLUDES:

- WRITING/REFINING PYTHON PROGRAMS
- USING LISTS/VARIABLES TO MODEL SCENARIOS
- DEBUGGING
- DISCUSSING ETHICAL IMPACTS OF AI

STUDENT WORKBOOK (MIDDLE SCHOOL)

1) AI + FASHION BASICS

- WHAT DOES AI LEARN FROM FASHION IMAGES?
- NAME TWO THINGS PYTHON CAN TELL AI TO CHANGE.

2) CODE READING

RANDOM.CHOICE(TOPS)

- WHAT DOES RANDOM.CHOICE() DO?
- WHAT TYPE OF DATA IS TOPS?

3) MAKE IT YOURS

- CREATE LISTS OF: 3 TOPS, 3 BOTTOMS, 3 SHOES
- REWRITE THE DEMO WITH YOUR OWN STYLE.

4) DISCUSSION PROMPT

- IF YOU COULD DESIGN YOUR OWN AI FASHION PROJECT, WHAT WOULD IT CREATE?
- HOW COULD THIS BE USED IN GAMING, SHOPPING, OR ART?

STUDENT WORKBOOK (HIGH SCHOOL)

1) UPGRADE THE STYLIST

ADD TWO NEW CATEGORIES, SUCH AS:
ACCESSORIES, COLORS, HAIRSTYLES, JACKETS

WRITE UPDATED PYTHON CODE.

2) ALGORITHM CHECK

EXPLAIN YOUR ALGORITHM IN 4–6 STEPS.

3) DEBUGGING CHALLENGE

FRIEND'S CODE:
`PRINT(RANDOM.CHOICE(TOP))`

- WHAT'S THE BUG?
- FIX IT.

4) AI ETHICS REFLECTION

- ONE BENEFIT OF AI IN FASHION
- ONE RISK
- HOW TO REDUCE THE RISK

ANSWER KEY

MIDDLE SCHOOL

- AI LEARNS SHAPES, STYLES, COLOR COMBOS, AND CLOTHING TYPES
- PYTHON CAN CHANGE COLORS, TEXTURES, OUTFIT STYLES
- `RANDOM.CHOICE()` PICKS A RANDOM ITEM FROM A LIST
- `TOPS` IS A LIST
- ANSWERS MUST SHOW LISTS + WORKING PRINT
- DISCUSSIONS: PROJECT + REAL-WORLD USE

HIGH SCHOOL

- CODE MUST INCLUDE NEW LISTS AND PRINT THEM
- ALGORITHM: CHOOSE ITEMS + PRINT COMBO
- DEBUGGING FIX:
`PRINT(RANDOM.CHOICE(TOPS))`
- ETHICS: BENEFIT, RISK, MITIGATION