Deco's Learning Brew

IB Computer Science · SL & HL

MAY & NOV 2027 CASE STUDY · PAPER 1



Teach the Case Study in 6 easy steps

New to teaching CS? *Generative AI for image creation* is broken into six topics, each with a short video and a ready-made interactive lesson. Teach them in this order.

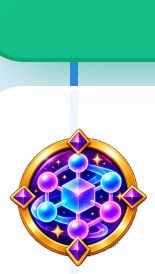


STEP 1 **Image Generation Techniques** SL + HL

Prompt, condition or no input at all: how the generation mode decides control and surprise.

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▶ **Episode 1**
Lines 15–34
youtu.be/BLZQFXOd7bM



STEP 2 **Diffusion Models** SL + HL · core

Start from random noise and remove it step by step. The one architecture everyone must know in depth.

▶ **Episode 2**
Lines 35–46



STEP 3 **GANs** HL only

A generator and a discriminator compete, and the competition sharpens both networks.

▶ **Episode 3**
Lines 48–59



STEP 4 **Hybrid Models** HL only

Combine diffusion, GANs, VAEs or flows to gain a strength, and weigh what the stitching costs.

▶ **Episode 4**
Lines 60–76



STEP 5 **Evaluating Models** SL + HL

A five-point checklist turns "which model looks best?" into a structured, defensible decision.

▶ **Episode 5**
Lines 77–95



STEP 6 **Ethics and Law** SL + HL

The three ethical and legal considerations the studio "cannot overlook", kept clearly separate.

▶ **Episode 6**
Lines 96–105

Every step follows the same lesson cycle



Sense
notice & predict

›



Explore
interactive lab

›



Interpret
what changed & why

›



Explain
exam-ready terms

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3

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