

BICOL UNIVERSITY COLLEGE OF SCIENCE

CS Elective – Artificial Intelligence

Case Study #1

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AI I interact with in my daily life:

1) ChatGPT (Direct Narrow AI)

ChatGPT generates answers by first getting a prompt from the user. The LLM then breaks it down into tokens/words and converts them into a numerical vector. The vectors are passed through the "brain" (transformer layers) and generates the answer by predicting the next words step-by-step to form a coherent response.

2) TikTok Feed (Indirect Narrow AI)

TikTok's FYP uses AI driven recommendation systems to personalize content for their users. It monitors the users' behavior, interest, location, watch time, skips, liked videos, and many more to determine the users' preferences. AI then predicts which videos they'll engage with the most, thus creating the "algorithm".

3) Photoshop's Generative AI (Direct Narrow AI)

Photoshop's generative AI like generative fill and expand use diffusion models. When the user enters a prompt, the AI generates possible pixel arrangements. It analyzes factors such as lighting, perspective, and the current style of the photo to make the result more natural.

As a student, tiktok's FYP allows me to fully enjoy relevant content that tiktok creators make; while Photoshop's generative AI helps me easily make pubmats as I am part of university organizations. But, what I love the most are the rise of LLMs like ChatGPT as they act like my personal mentor and coach on my journey as a computer science student. I use them to guide me in learning more complex concepts that are otherwise harder to learn if I were to just search the internet for answers. Therefore, it would be way harder to discover new things if they didn't exist. It has revolutionized the way people live and work, reshaping how people approach learning. Prior to AI, I used to rely on internet sources like stack overflow, documentations, and Youtube videos to answer my questions. But now, I streamline this by asking ChatGPT to guide me towards the appropriate flow and list possible ways to solve the problem; I then research them individually to get more "human" answers and opinions. I am doing my best to adapt to this new era of learning to fully maximize the tools we have.