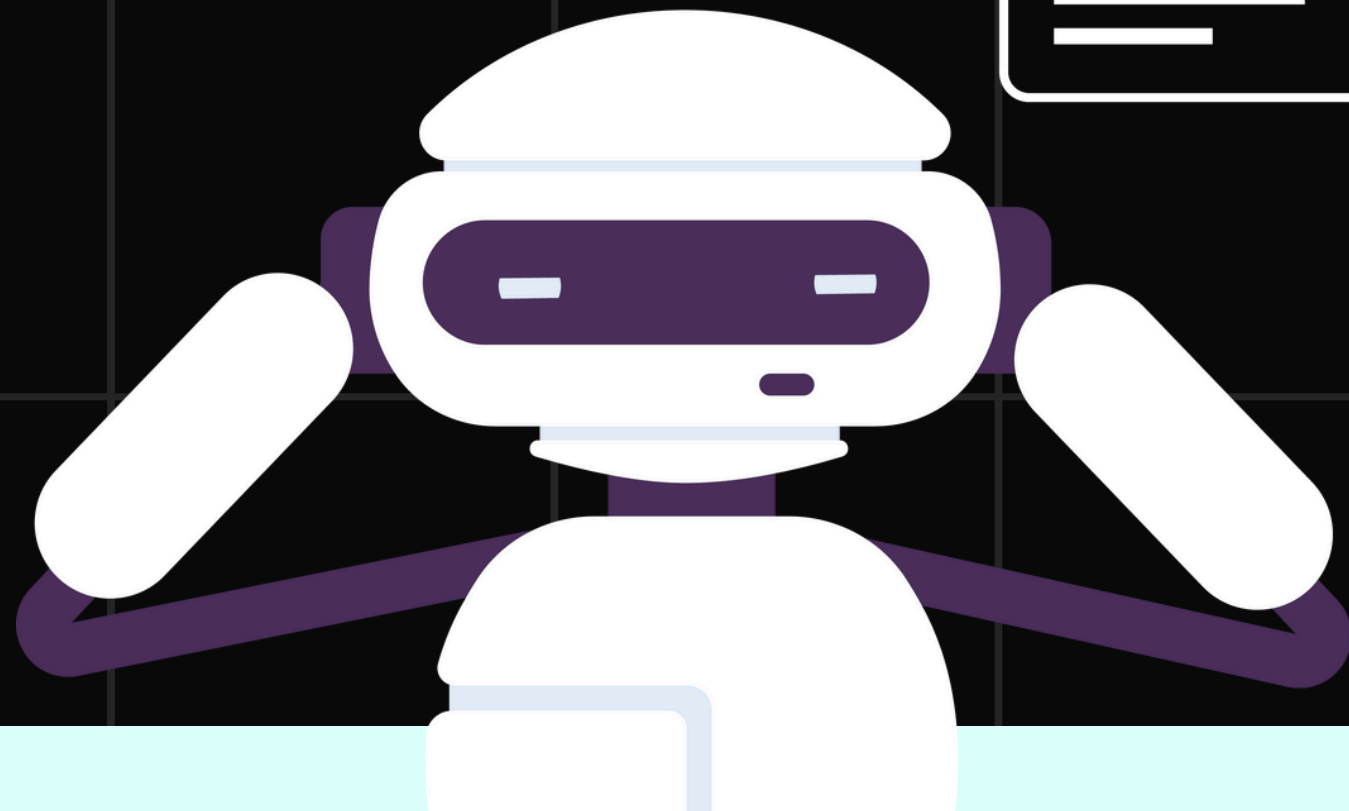
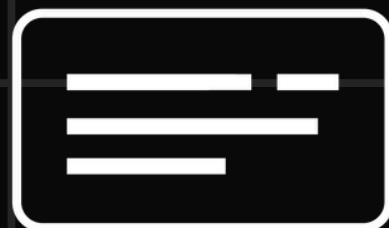
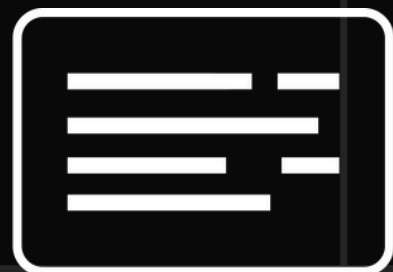


Five AI Applications

Presented by Islam Osmonov
CS-21



AI Applications



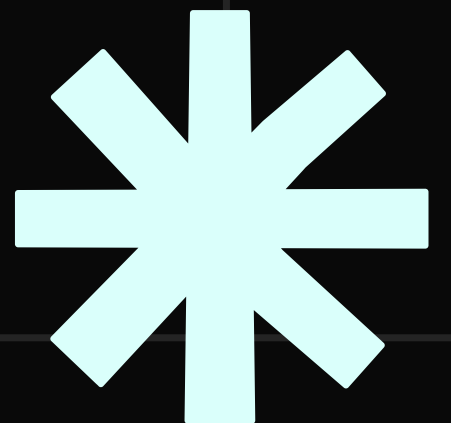
DeepSeek

Perplexity AI

DeepL

Grammarly

Midjourney



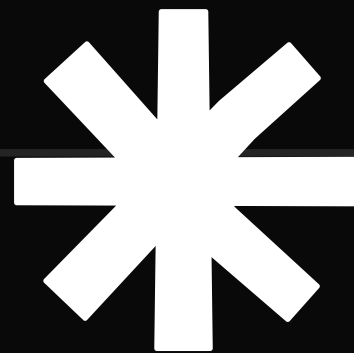
1. DeepSeek

DeepSeek is an AI-powered search engine and information retrieval system based on large language models (LLMs). It is designed to enhance traditional search experiences by understanding user queries in-depth and generating human-like responses. DeepSeek leverages advanced natural language processing (NLP) techniques, web crawling, and knowledge extraction to provide more relevant, well-structured answers.



Where it is used:

- AI-driven research and knowledge retrieval – Helps researchers, students, and professionals find accurate and summarized information.
- Customer support automation – Can be integrated into chatbots to answer customer queries intelligently.
- Competitive intelligence and business analysis – Used for monitoring industry trends and market insights.



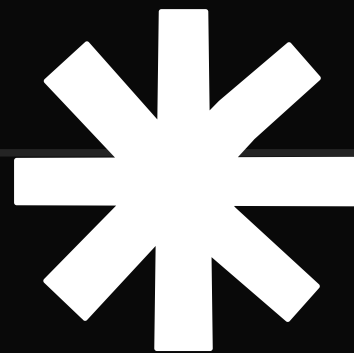
2. Perplexity AI

Perplexity AI is a next-generation AI-powered search assistant that combines natural language processing with real-time web search. It acts as both a search engine and a chatbot, retrieving relevant online data and synthesizing responses in an easy-to-understand format.



Where it is used:

- AI-powered knowledge assistant – Used by researchers, students, and professionals to get in-depth, cited information.
- Tech journalism and fact-checking – Helps journalists verify facts and find reliable sources quickly.
- Personalized learning and tutoring – Assists students with academic questions, similar to an AI tutor.



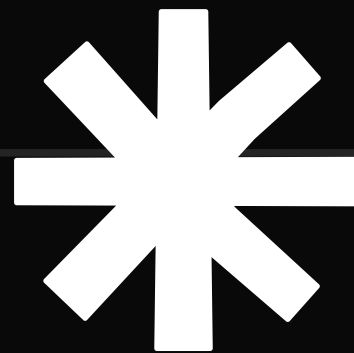
3. DeepL

DeepL is a neural machine translation (NMT) service that uses deep learning to provide highly accurate translations. Unlike traditional statistical translation models, DeepL applies transformer-based neural networks that analyze context, idioms, and grammatical structures to produce more natural-sounding translations.



Where it is used:

- Business communication and globalization – Companies use DeepL for multilingual support, international trade, and document translation.
- Content localization – Used in marketing, gaming, and media to adapt content for global audiences.
- Academic and research translation – Helps researchers and students translate papers, articles, and books efficiently.



4. Grammarly

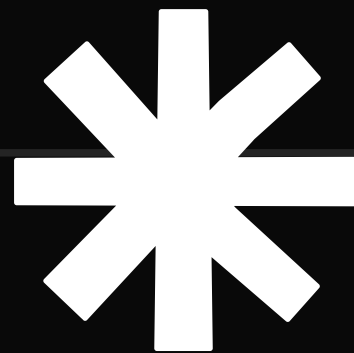
Grammarly is an AI-powered writing assistant that enhances text by checking for grammar, spelling, punctuation, and style issues. It uses deep learning models and NLP to analyze text and suggest improvements.

Grammarly also adapts to different writing tones and audiences, making it a versatile tool for both professional and casual writing.



Where it is used:

- Business and professional writing – Used for writing emails, reports, and presentations.
- Academic writing and research – Helps students and researchers write clear, error-free papers.
- Content creation and blogging – Assists writers in refining their content for blogs, websites, and social media.



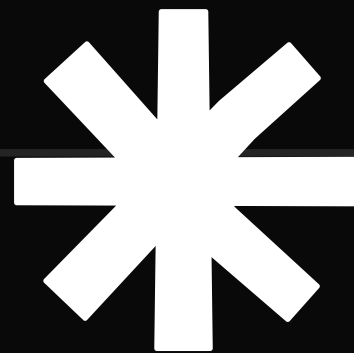
5. Midjourney

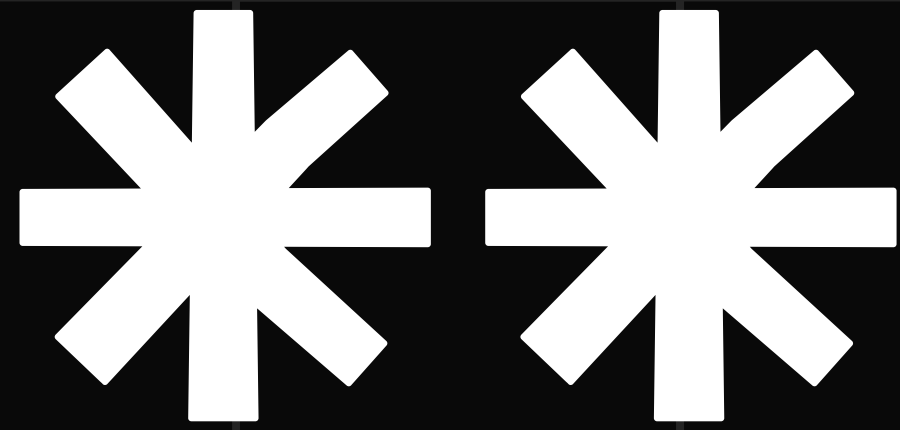
Midjourney is an AI-powered image-generation tool that creates high-quality visuals from text descriptions. It utilizes advanced deep learning techniques, including diffusion models and generative adversarial networks (GANs), to generate unique and detailed artwork. The AI is trained on vast datasets of artistic styles, enabling it to produce diverse and aesthetically rich images.



Where it is used:

- Digital art and concept design – Used by artists, designers, and illustrators to create unique visuals.
- Game development and animation – Helps generate character designs, environments, and concept art.
- Marketing and advertising – Assists businesses in creating eye-catching visuals for campaigns and branding.
- Book illustrations and comics – Used by authors and publishers to generate covers and in-book illustrations.





Thank you!