

REPORT ON PRE-DIPLOMA PRACTICE

Kharkiv State Academy of
Design and Fine Arts

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THE PLAN

1 week. 1-5 days:

- Search for similar projects:
- Analysis of information sources
- Search for literature
- Study of instructions for working in Neural Networks
- Learning to write code tasks in a neural network

Week 2. 1-5 days:

- Developing a strategy for working in neural networks:
- Testing different neural networks
- Creating a list of neural networks for further work

Week 3. 1-5 days:

- Experimenting with assigning and creating different images using neural networks:
- Using neural networks in photography applications
Analysis of popular photo processing programs and services
- Practical training in using neural networks to create photos
- Writing different code values, generating images
- Stylistic experiments
- Experiments based on images

Neural networks are computer systems inspired by the human brain that can perform tasks by learning from data. They appeared in the 20th century, but have only become widely used now due to increased computing power and access to large amounts of data.

Application in images:

Neural network technologies are being used for advanced image processing tasks such as face recognition, object segmentation in images, and even generating realistic images using deep generative models.



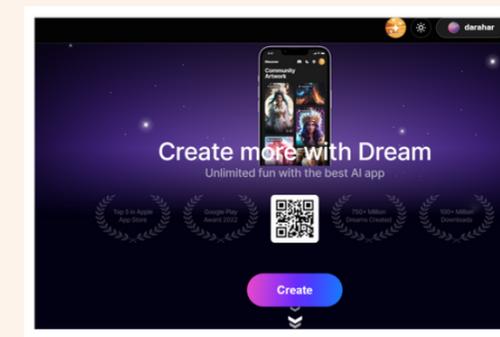
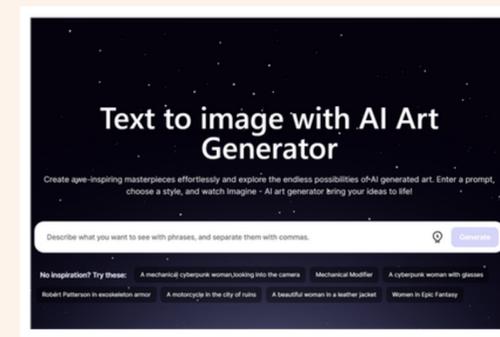
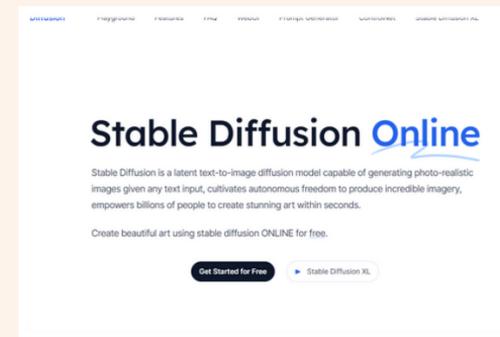
Neural networks have had a significant impact on the development of photography, providing new possibilities and approaches to processing and creating photos. Here are some of the ways that neural networks have impacted photography:

- High-quality images: Neural networks can improve the quality of low-resolution and noisy images. Image restoration technologies using deep generative models can increase resolution and reduce artifacts.
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- Image stylization and transformation: Neural networks can transform photos into different artistic styles, giving them a drawing or painting effect. This gives photographers a new way to express themselves and be creative.
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- Automatic image processing: Neural networks help automate routine processing tasks such as color correction, retouching, and more, freeing photographers from time-consuming processes.
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- Image generation: Deep generative models allow you to create new images that look very realistic. This can be useful for creating new conceptual artwork.
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- Image recognition and analysis: Neural networks can detect objects in photos, recognize faces and objects, which opens up new possibilities for photographers in selecting material and creating moving compositions.

- Expanding creativity: With neural networks, photographers can experiment with new approaches, processing and styling options, which can expand their creativity and abilities.
- Interactivity and virtual reality: Neural networks are used to create interactive virtual worlds where users can interact with the models and images they create.
- Automated albums and visual stories: Neural networks help to automatically select and combine images into structured albums or even create visual stories from events or travels.

List of Neural Networks for image creation:

- DALL E 2
- Stable Diffusion
- AI Art Generator
- WOMBO Dream
- Midjourney



DALL E 2 .

- is an artificial intelligence system that can create realistic images and art from natural language descriptions.



Girl, pretty hair, blue eyes, stands against the backdrop of mountains, in a white dress



Photo, girl, pretty hair, blue eyes, stands against the backdrop of mountains, in a white dress, canon, 8k, ar16:9



Girl, pretty hair, blue eyes, stands against the backdrop of mountains, in a white dress, painted in the style of Van Gogh

WOMBO Dream

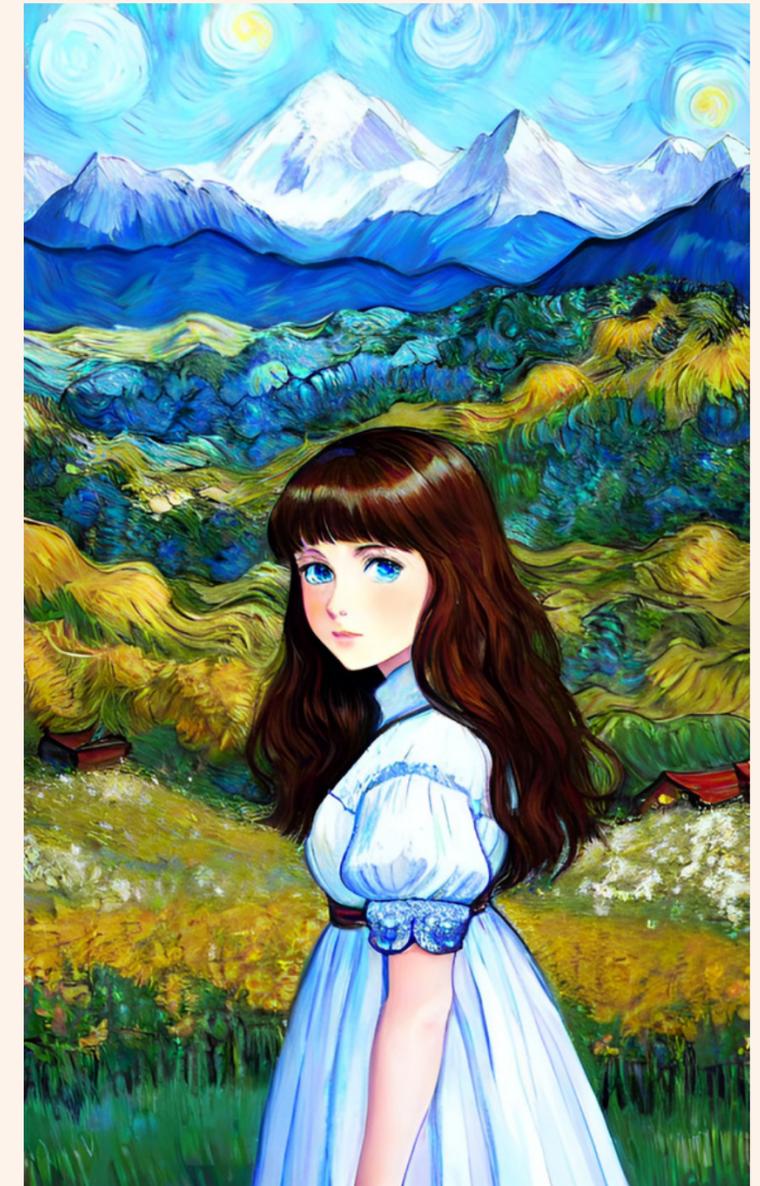
- Create your craziest dreams and get access to new AI models, special profiles, and more.



Girl, pretty hair, blue eyes, stands against the backdrop of mountains, in a white dress



Photo, girl, pretty hair, blue eyes, stands against the backdrop of mountains, in a white dress, canon, 8k, ar16:9



Girl, pretty hair, blue eyes, stands against the backdrop of mountains, in a white dress, painted in the style of Van Gogh



Midjourney —

is an independent research laboratory that explores new ways of thinking and expands the imagination of the human race.

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Girl, pretty hair, blue eyes, stands against the backdrop of mountains, in a white dress, painted in the style of Van Gogh

Based on personal photographs:



<<https://s.mj.run/WuewqVVkFYk>>
<<https://s.mj.run/VXtj26loxFg>>
<<https://s.mj.run/kvGm9xP66Yk>> Photo, A girl, a round face with cheekbones, blue eyes, curly hair, stands on the beach, look into the distance, in a white flowing dress, the wind is blowing, the sea is visible, waves are raging, butterflies are flying around, the sun is shining, sunset, warm colors, background, ar16:9 8k



<<https://s.mj.run/VXtj26loxFg>>
<<https://s.mj.run/WuewqVVkFYk>>
<<https://s.mj.run/p-1gbHlscDs>>
<<https://s.mj.run/vXldrdA-q4l>>
<<https://s.mj.run/rzkIK82HgTU>>
<<https://s.mj.run/KTHaYcVxmRU>>
<<https://s.mj.run/VXtj26loxFg>> Photo, Girl, round face with cheekbones, blue eyes, curly hair, standing on the beach, look into the distance, the wind is blowing, you can see the sea, waves are raging, the sun is shining, sunset, warm colors, background, ar16:9 8k



<<https://s.mj.run/WuewqVVkFYk>> A girl, a round face with cheekbones, blue eyes, curly hair, stands on the beach, look into the distance, in a white flowing dress, the wind is blowing, the sea is visible, waves are raging, butterflies are flying around, the sun is shining, sunset, warm colors, background, illustration, ar16:9 8k



A girl, a round face with cheekbones, blue eyes, curly hair, stands on the beach, look into the distance, in a white flowing dress, the wind is blowing, the sea is visible, waves are raging, butterflies are flying around, the sun is shining, sunset, warm colors, ar16:9 8k



A girl, a round face with cheekbones, blue eyes, curly hair, stands on the beach, look into the distance, in a white flowing dress, the wind is blowing, the sea is visible, waves are raging, butterflies are flying around, the sun is shining, sunset, warm colors, background, illustration, ar16:9 8k

Midjourney



Midjourney



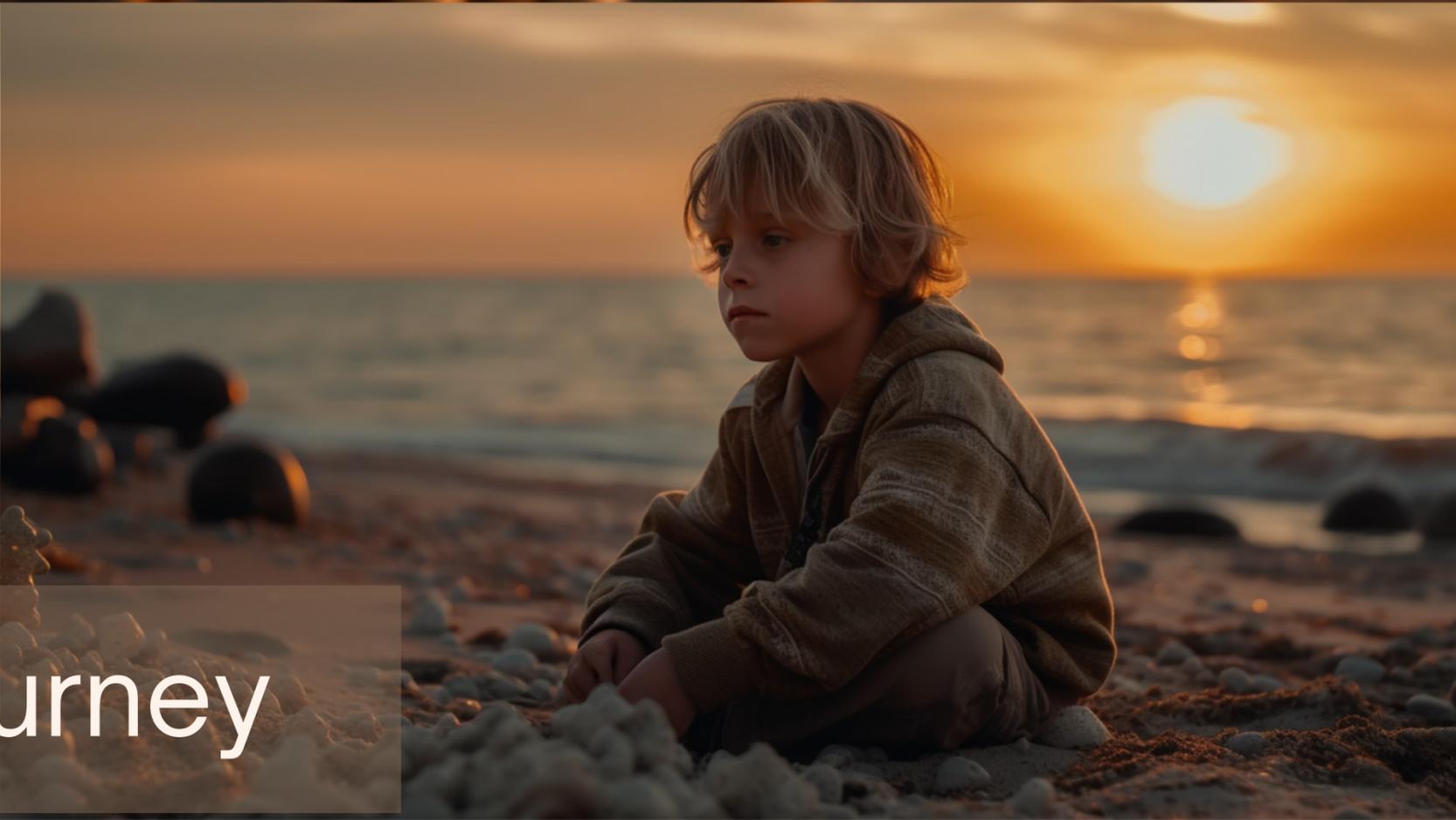
little happy boy, with blond curly hair, blue eyes, dressed as a chef, stands in the restaurant kitchen





Photo, girl standing on the seashore, blonde curly hair, blue airy dress, looking into the distance, evening sun, warm colors, RGB, 8k, cannon 85mm, ar9:16

Midjourney

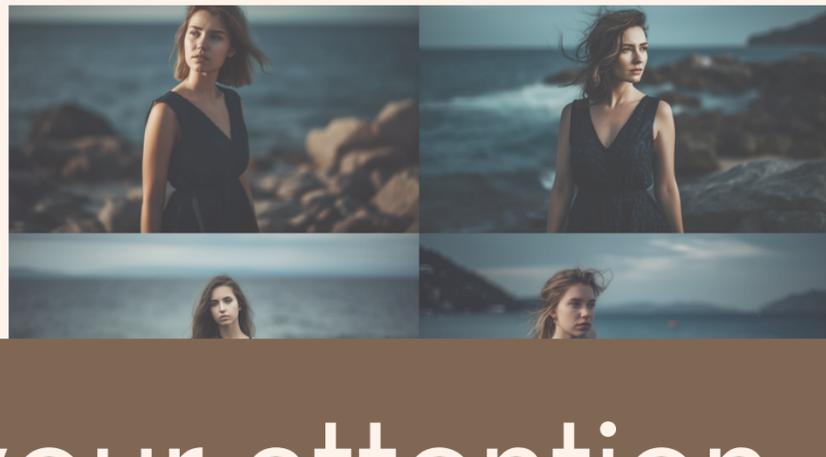
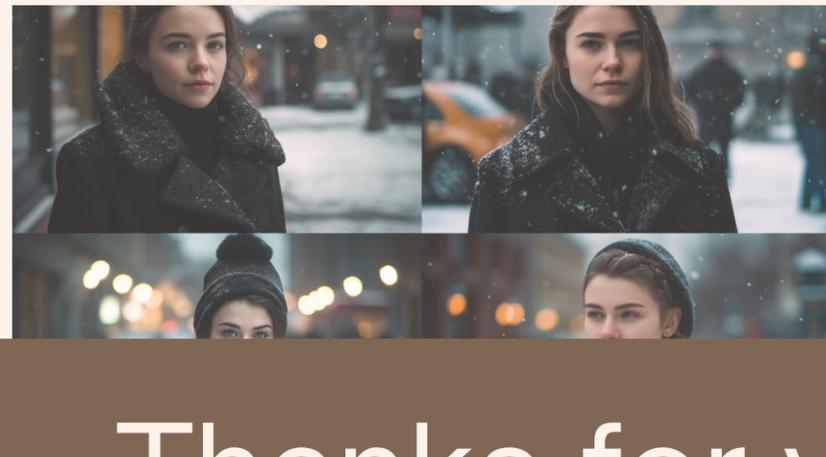


Midjourney

Conclusion::

With Midjourney, you can create images in different styles. Users can specify the preferred style or let LLM choose the style for them.

To summarize, Midjourney is still under development, but its potential as a powerful tool for creatives to generate new ideas, explore styles, and create unique images using the synergy of text and images is already evident. I believe that this may be the best neural network in the field of image generation.



Thanks for your attention

