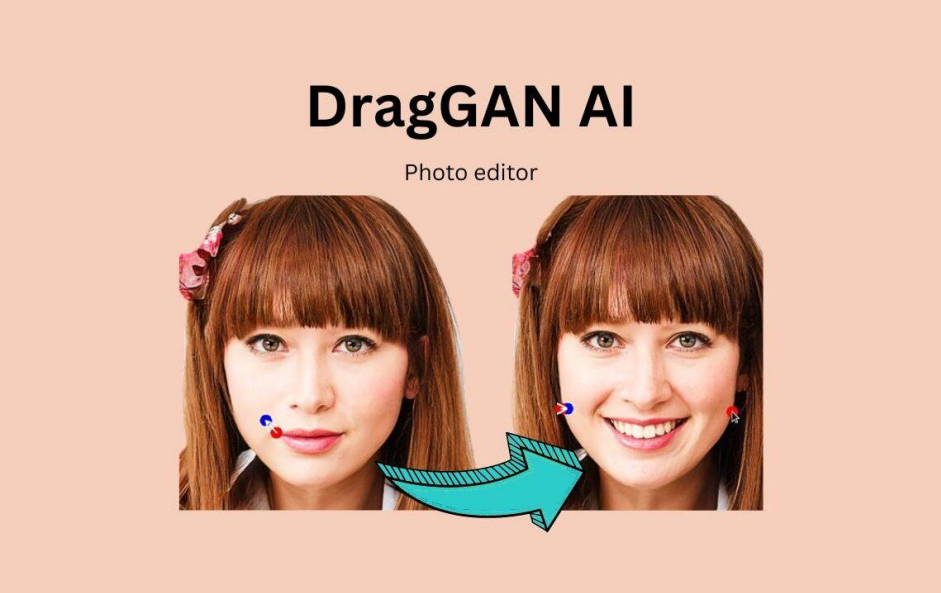
DragGAN: The AI-Powered Image Editing Tool

DragGAN is a new AI tool developed by the Max Planck Institute that allows users to modify photographs realistically with a few clicks and drags. It provides two major components: feature-based motion supervision and a revolutionary point-tracking technique.



DragGAN allows users to drag points in a picture to their chosen target places interactively. This feature-based motion supervision enables users to move handle points precisely, providing them complete control over the picture alteration process. Furthermore, the point-tracking technique ensures that the handle points are monitored precisely throughout the editing process.

DragGAN changes pictures by generating a 3D model of the image, which is subsequently editable. Users may adjust the position, shape, emotion, and arrangement of items in the image without impacting the remainder of the image. DragGAN works by first extracting features from an image with a Convolutional Neural Network (CNN). These characteristics are then utilized to generate a 3D representation of the picture. A second CNN is then used to alter the 3D model. This CNN was trained using an image dataset that has been altered by humans. The altered photos are used to teach the CNN how to modify the 3D model. Once taught, the CNN may be used to alter any picture.

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