\* Image processing involves analyzing and manipulating images using tools and code.

\* Python is commonly used in data science and AI projects to work with image data.

\* Images are represented as a three-dimensional matrix of pixel values to computer software.

\* Matplotlib is used for data visualizations, including image reading, writing, and display.

\* The Python Image Library (PIL/Pillow) provides functions for image manipulation and supports various image types.

\* OpenCV is a library for Python-based computer vision programming.

\* Scikit-Image applies statistical and mathematical functions to image data for analysis and modelling.

\* NumPy arrays are the ideal format for sharing image data across different image processing packages.