



# MASTER YOUR DIGITAL SKILLS

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## Image Processing: Farbsegmentierung mit K- means Clustering

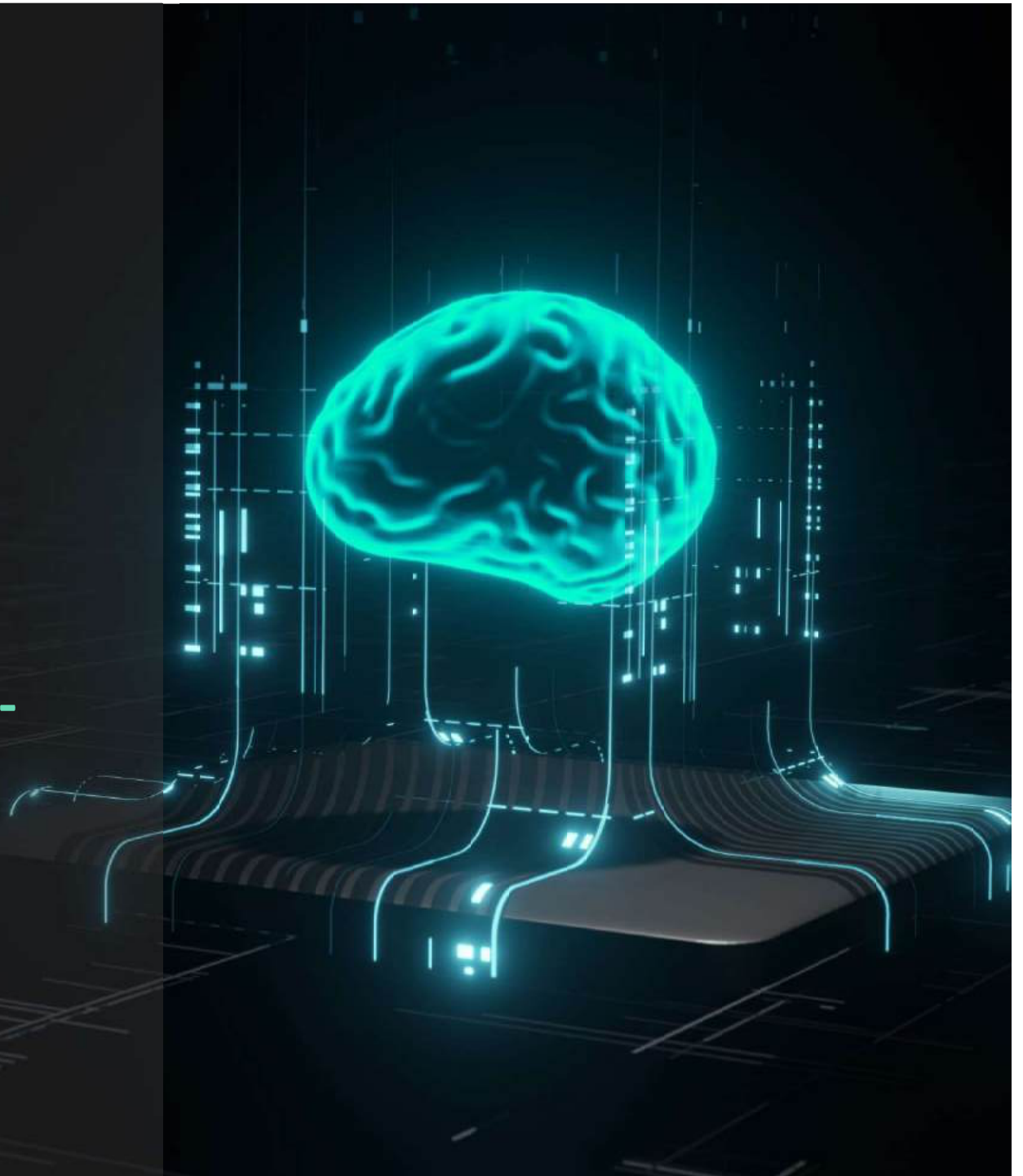
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Artificial Intelligence (AI)

*StackFuel*



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# Course OVERVIEW

The webinar "Image Processing: Color Segmentation with K-means Clustering" provides a comprehensive introduction to using the K-means clustering algorithm for color segmentation in images. In this one-hour session, participants will learn through practical examples how to segment images by their dominant colors using the Python libraries scikit-learn and OpenCV.



## TARGET AUDIENCE

The course is held in German.

This beginner's course is suitable for anyone with basic knowledge of Python interested in image processing using sklearn and OpenCV. This webinar is ideal for those looking to deepen their knowledge in image processing, particularly in machine learning applications.

# COURSE DESCRIPTION

The webinar will start with an overview of basic color representation and storage concepts, followed by a detailed explanation of the K-means clustering algorithm. It will demonstrate how to read and prepare images using OpenCV, and apply the K-means algorithm via scikit-learn to segment different color groups in an image.

- **Image Processing**
- **K-Means Clustering**
- **Sklearn & OpenCV**

## Nils Schillmann

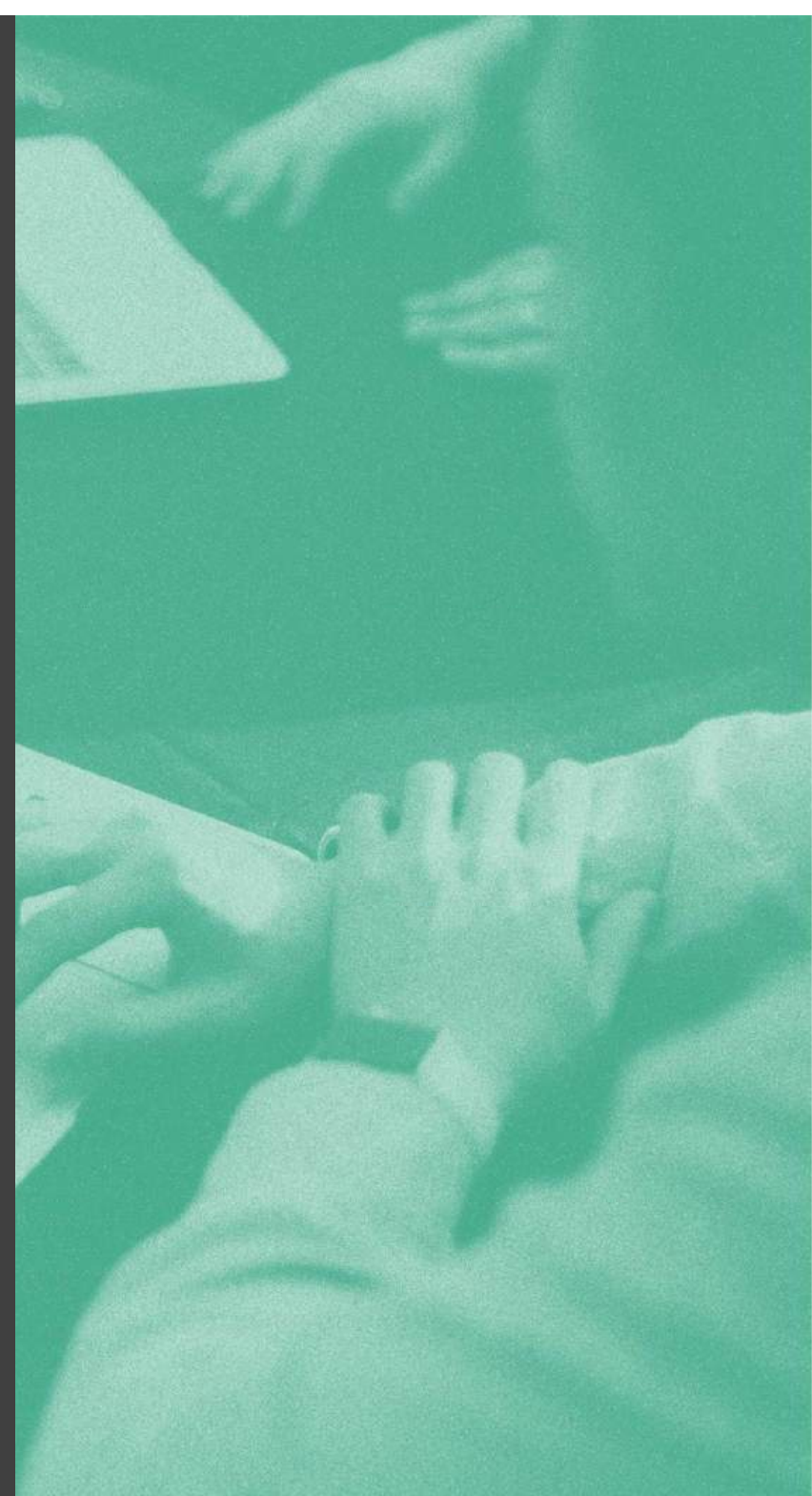
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Nils is a computer scientist and Data Science mentor at Stackfuel, where he oversees courses on data analysis and machine learning. During his studies, he focused on various areas of computer vision, combining concepts of classical image processing and machine learning methods to extract meaningful information from image and video data.



# COURSE INFO

Location	Toolbox Datenkompetenz
Date	05.06.2024
Duration	1 hour
Cost	free





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