Deep Learning Tutorial

# Introduction

Deep learning is a branch of machine learning based on artificial neural networks.

# Neural Networks

Neural networks consist of layers of interconnected nodes that process information.

Key components:

* - Input Layer
* - Hidden Layers
* - Output Layer

# Applications

Machine learning is used in various fields:

* Computer Vision: Image recognition and object detection
* Natural Language Processing: Text analysis and translation
* Speech Recognition: Voice assistants

# Conclusion

Deep learning continues to advance artificial intelligence capabilities.