



EINO UIKKANEN'S
AI PRESENTATION
“WHAT AI IS AND WHAT IT IS NOT”

Eino Uikkanen



- Career in the ICT field, now retired
- Hobbies: singing, geodesy and artificial intelligence
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About this presentation

- This slide set is a translation of the slide set, which is written in Finnish for Eino Uikkanen's live presentations.
- Presentation does not present any individual AI applications; instead, it aims to give a general picture of what AI actually is – and what it is not.
- The slides marked "Extra:" are not covered in the standard live presentations, but the listeners can explore them on their own: a link to this slide series can be found on Eino Uikkanen's website www.einouikkanen.fi/en/



What AI Is and What It Is Not

Neural networks learn from examples

Vihtori Koikkalainen's neural network experiment (1957)

5x5 pattern

Goal: activate the output neuron

A simple neural network

Input layer: 25 neurons (5x5)

Hidden layer: 40 neurons

Output layer: 10 neurons (0-9)

The network learns weights (connections) through training. It generalizes to new examples.

What AI Is Not

- ✗ Not human-like thinking
- ✗ Not conscious
- ✗ Not perfect
- ✗ Not magical – it's mathematics and data

Understanding AI starts with understanding how simple neural networks work.

Eino Uikkanen

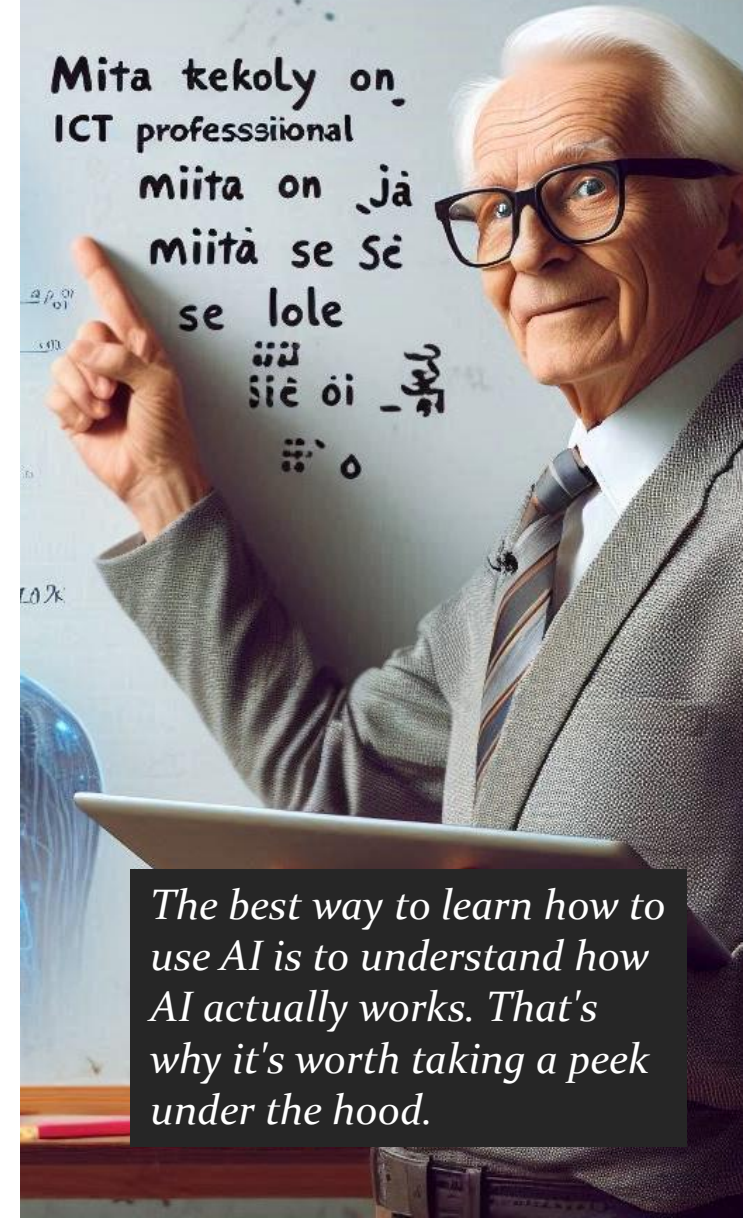
Most images included in this presentation were generated using AI applications, with the respective application names indicated within each image

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Content of the presentation

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ssion of AIT



The best way to learn how to use AI is to understand how AI actually works. That's why it's worth taking a peek under the hood.