



science & innovation

Department:
Science and Innovation
REPUBLIC OF SOUTH AFRICA

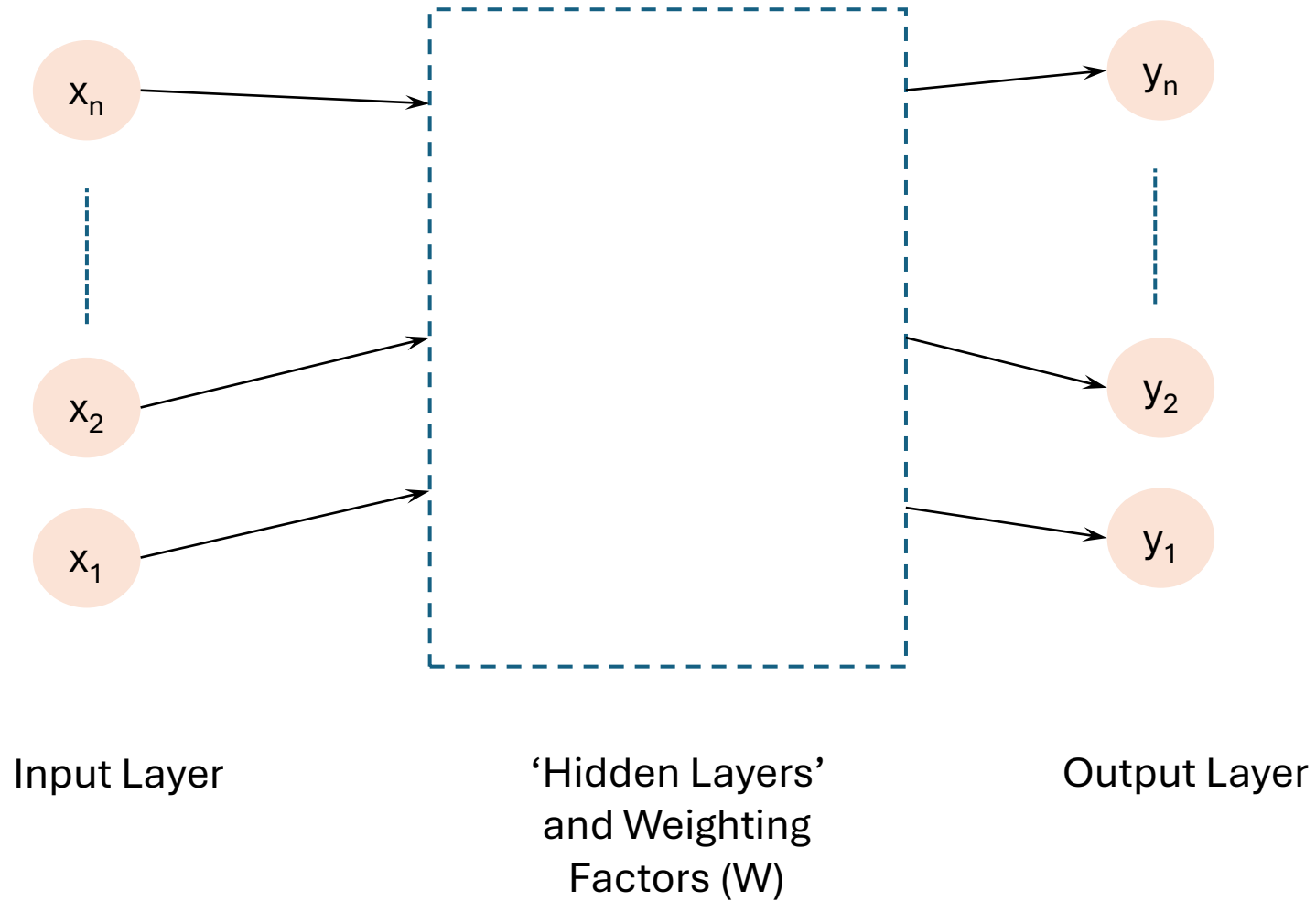


Large Language Models (LLMs): Smart Work or Academic Doping?

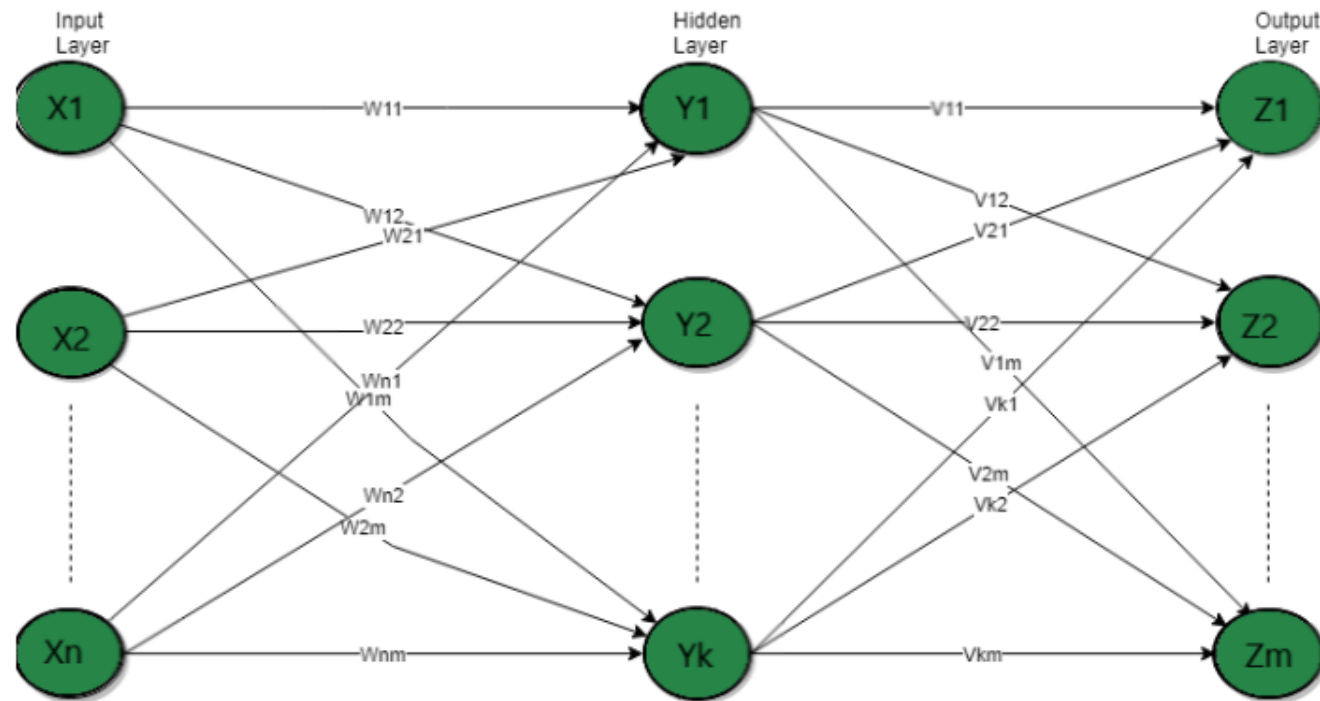
David Walwyn



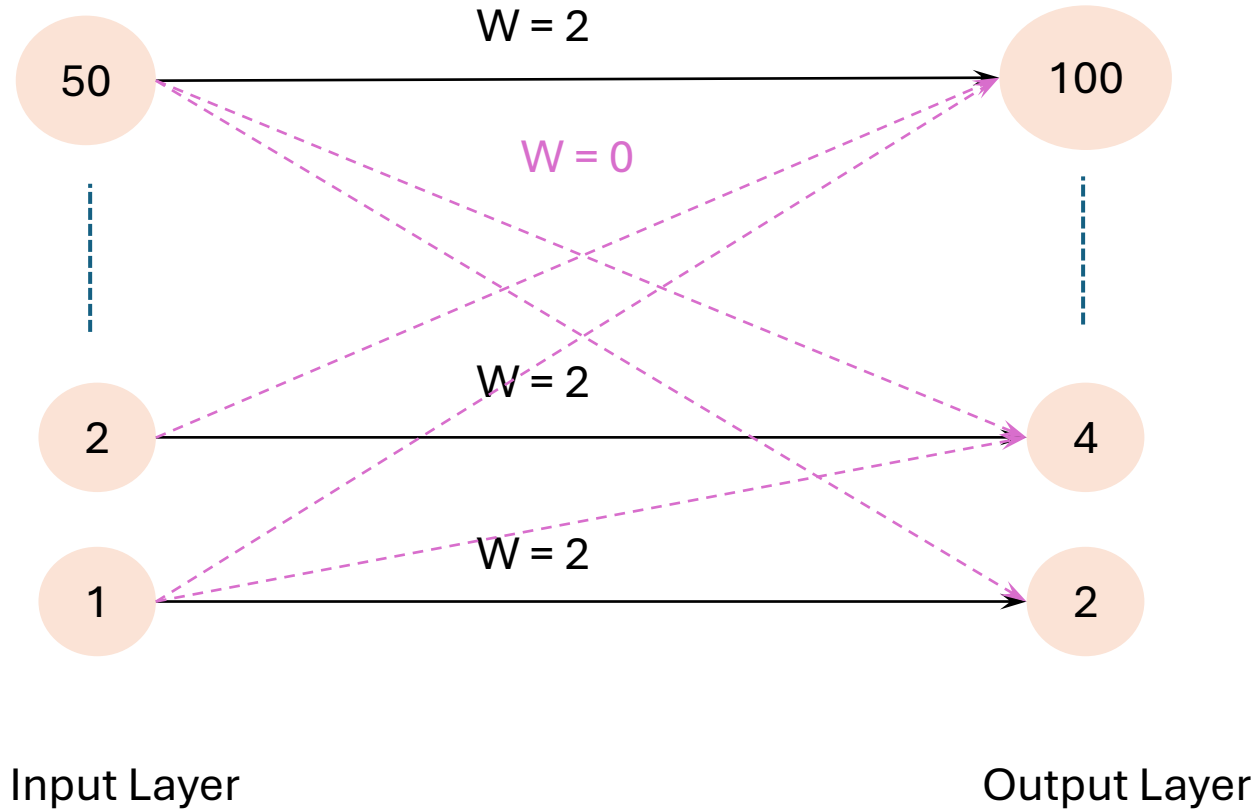
Neural Net Architecture



Multi-Layer Feed-Forward Network



Single Layer Feedforward Network



LLMs

- ±170,000 English words in regular use (these are the x values)
- LLM is a transformer model
 - neural network that learns context
 - meaning by tracking relationships in sequential data like the words in a sentence