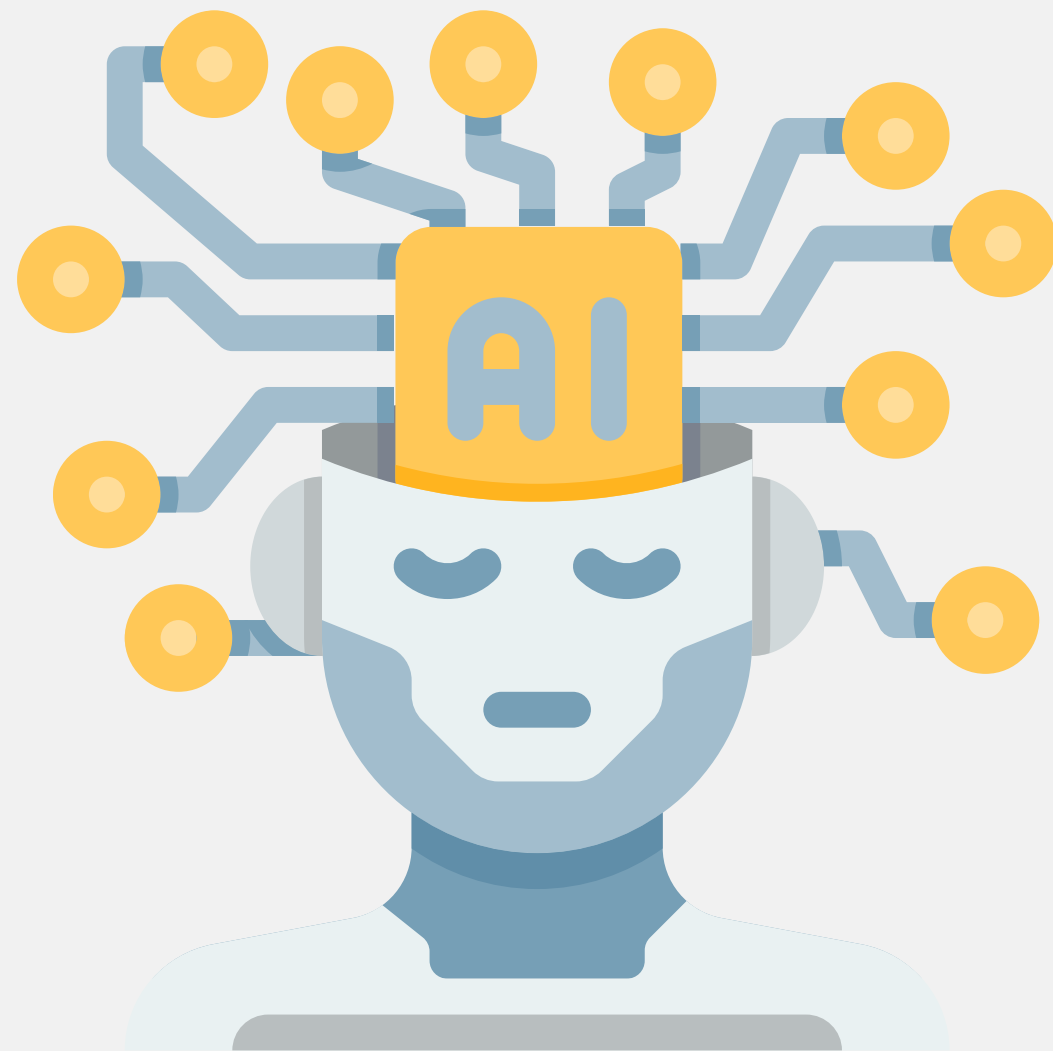


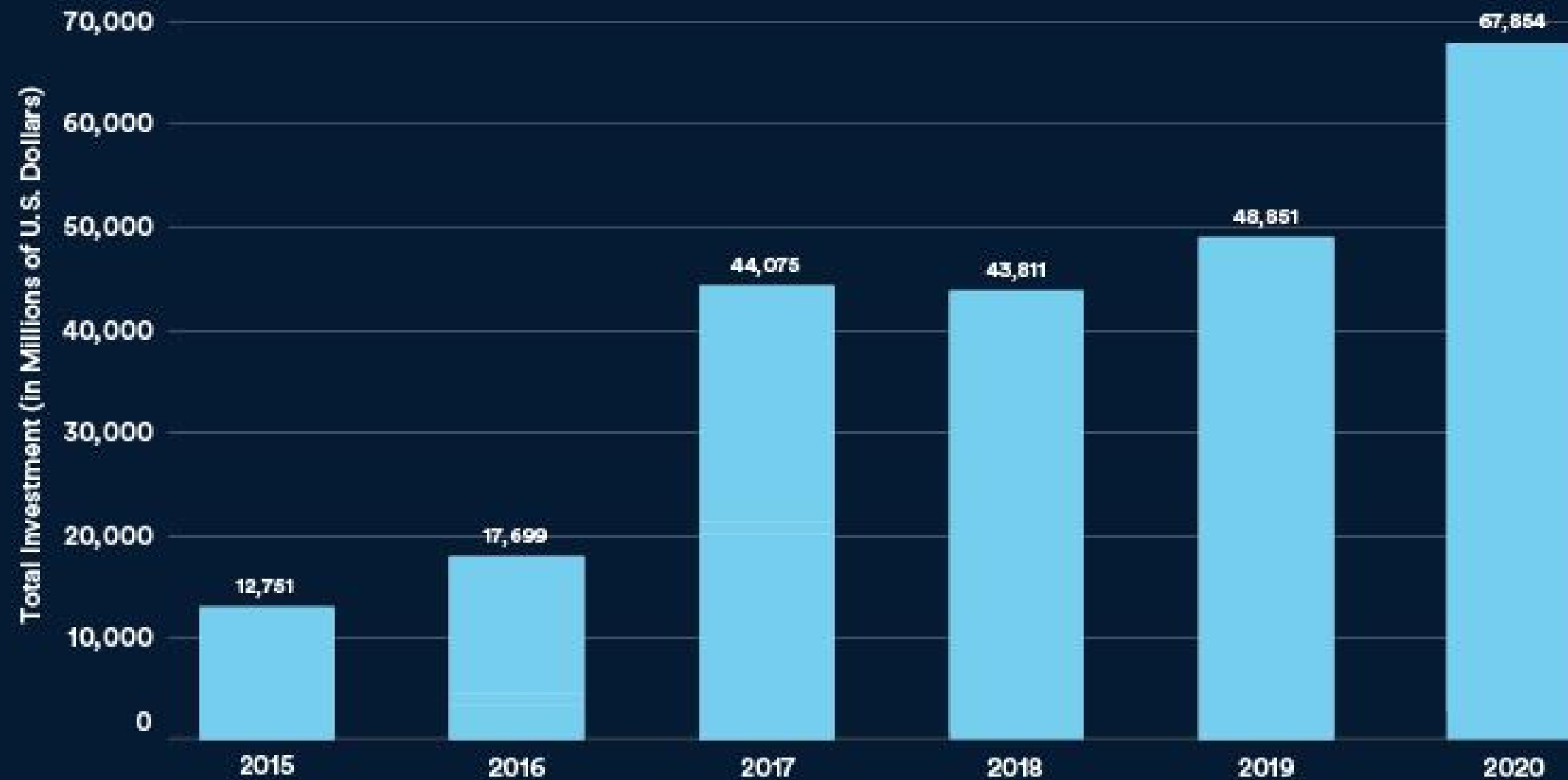
# Shri Ramdeobaba College of Engineering and Management



## Development Factors of AI

# Growth of AI

- From advancing medicine to optimizing business processes to powering myriad personal devices at the edge
- AI and ML are rapidly changing the face of science, business, and everyday life.
- Businesses and manufacturing operations are seeing significant benefits as well.



*Data Source: CAPIQ, Crunchbase, and NetBase Quid  
Adapted from the AI Index 2021 Annual Report*

Investors are piling into AI

# Factors driving development

- Cloud computing
- Next gen computing architecture
- Growth in deep neural networks
- Rise of data based AI

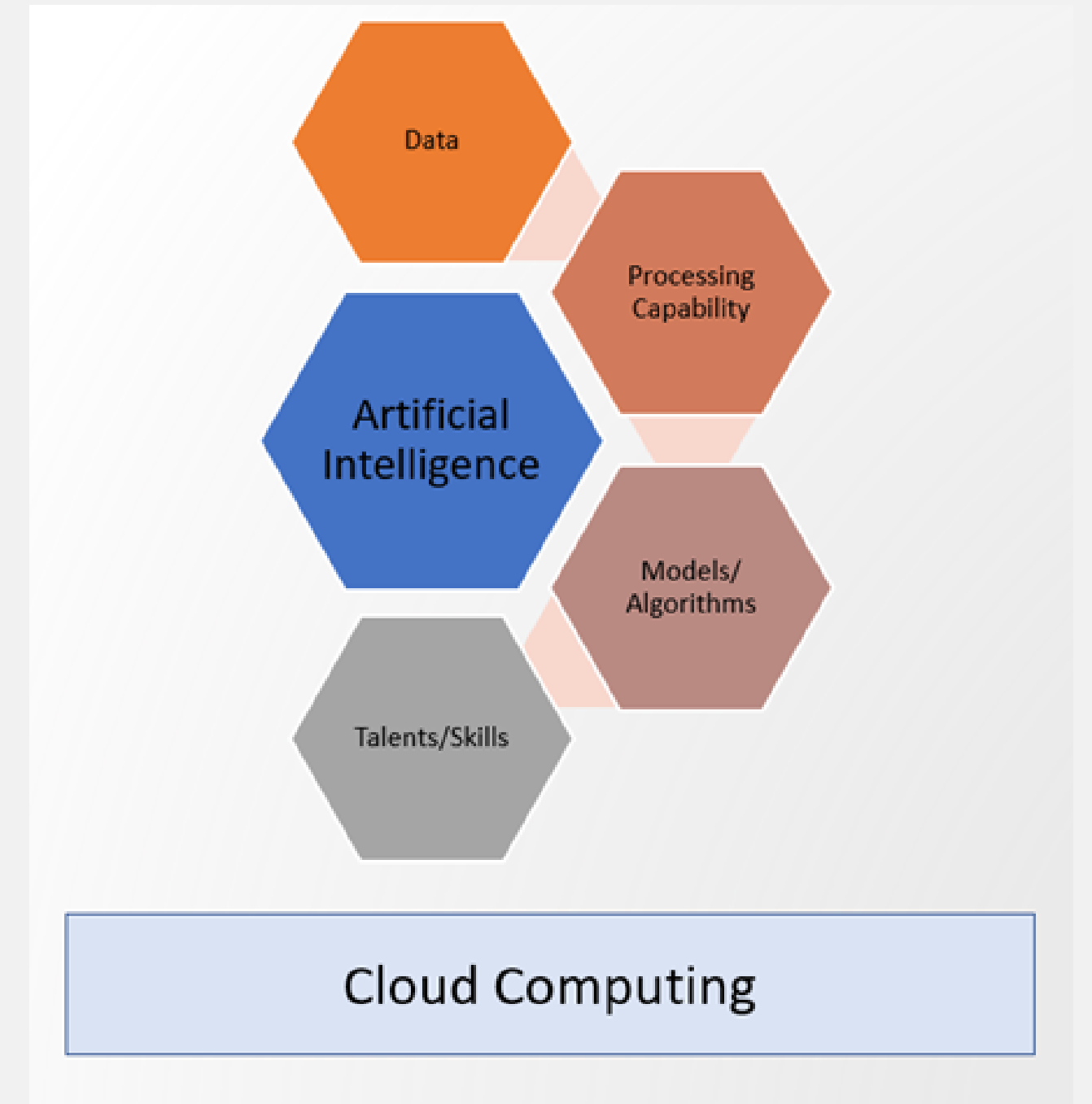
# Computing Architecture

- Graphics processing units (GPUs)
- Application-specific integrated circuit (ASIC)
- Field-programmable gate array (FPGA)
- Quantum computers



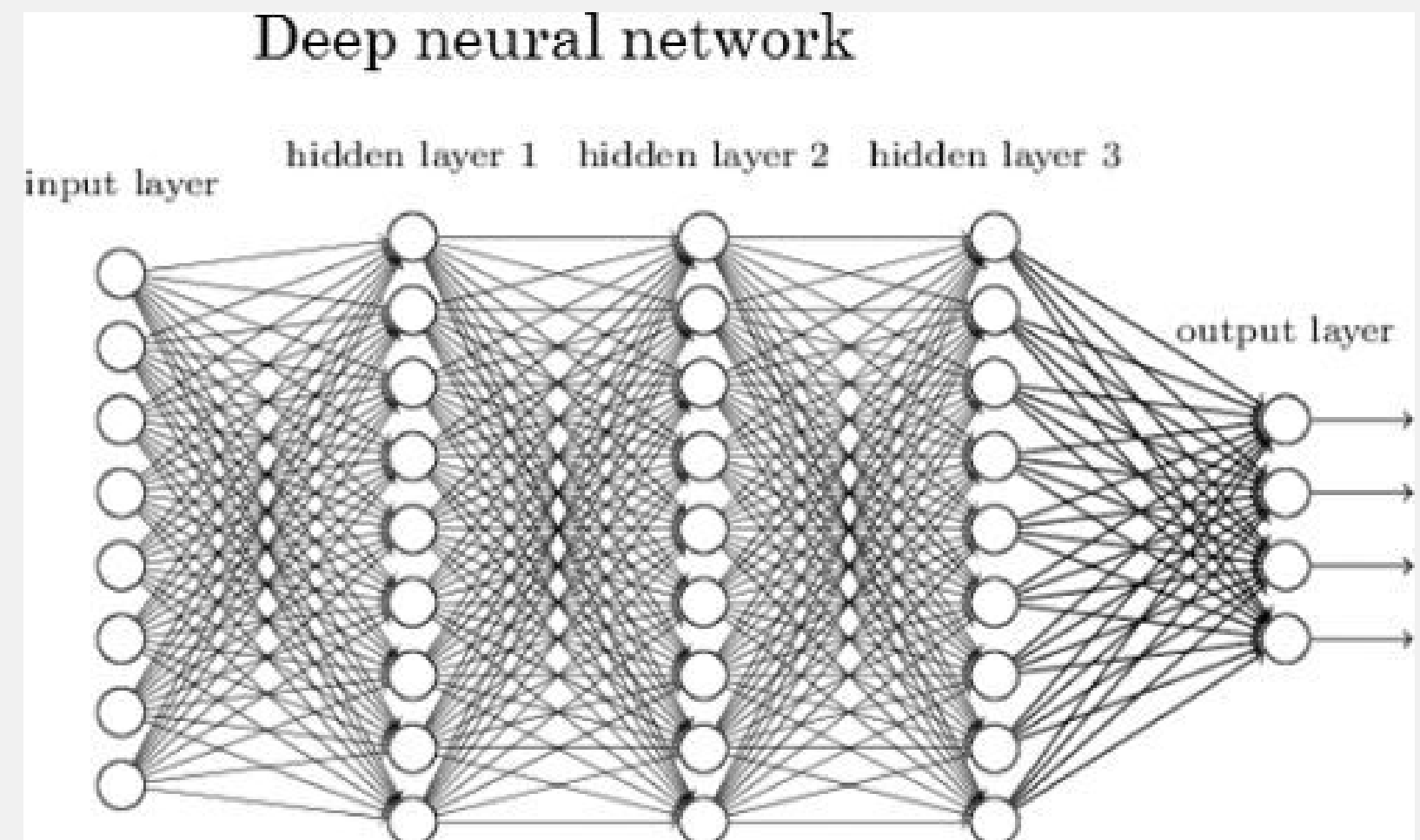
# Cloud computing

- Cloud delivery models
- Cloud technologies
- DevOps



# Deep Neural Networks

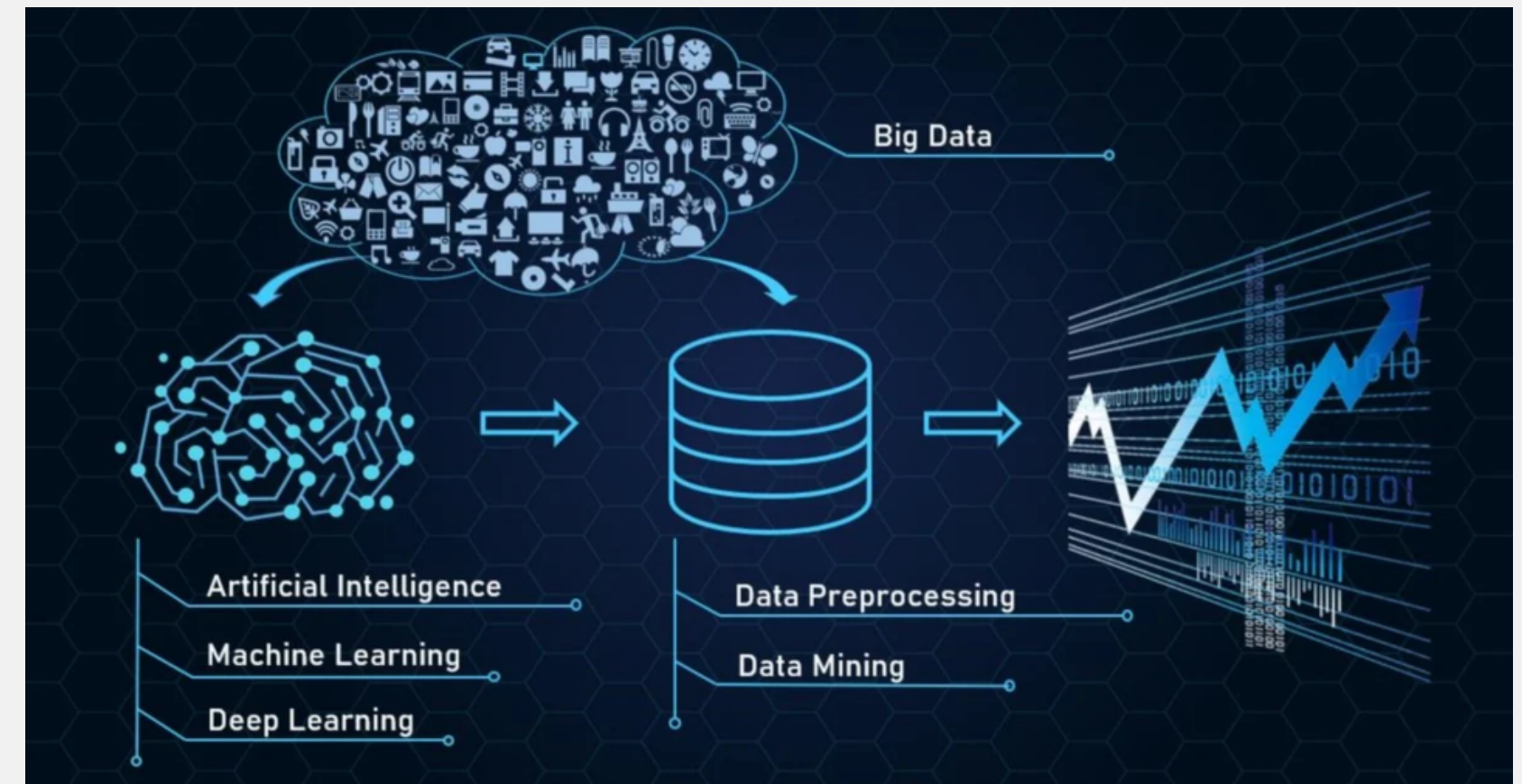
- Artificial Neural Networks (ANN)
- Convolutional Neural Networks (CNN)
- ML techniques such as Capsule Neural Networks (CapsNet) and Transfer Learning





# Rise of data based AI

- Automates the process of report generation and makes the data easy to understand
- Enables everyone within the organization to find answers intuitively and extract insights from the data.
- Set of technologies that excel at extracting patterns and insights from large sets of data





# THANKYOU

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