

On The Formation of Intelligence in Artificial Systems

Dani Yogatama



Ting-Rui Chiang



Oliver Liu



Josh Robinson



Artificial General Intelligence



~~Artificial General Intelligence~~

Intelligence

Intelligence





హలో Përshëndetje Halo
Aloha こんにちは Sveiki שלום
Ciao Сайн уу
नमस्कार Ahoj Hello வணக்கம்
KAMUSTA Γειά σου 여보세요 Salve
Здравствуйте مرحباً Merhaba
Hej 你好 Hola xin chào



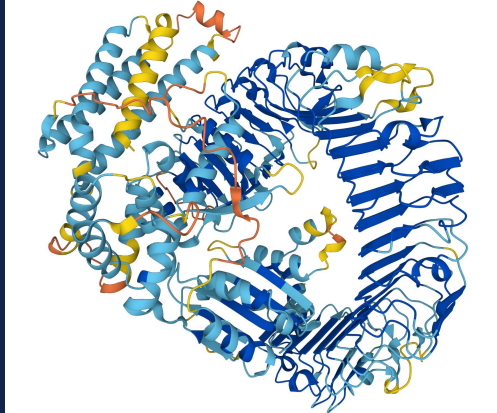


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```
int i, j;  
for (i = 0; i < n - 1; i++)  
  
    // Last i elements are already in place  
    for (j = 0; j < n - i - 1; j++)  
        if (arr[j] > arr[j + 1])  
            swap(&arr[j], &arr[j + 1]);
```

$$f_{\theta}(\mathbf{x}) \rightarrow \mathbf{y}$$

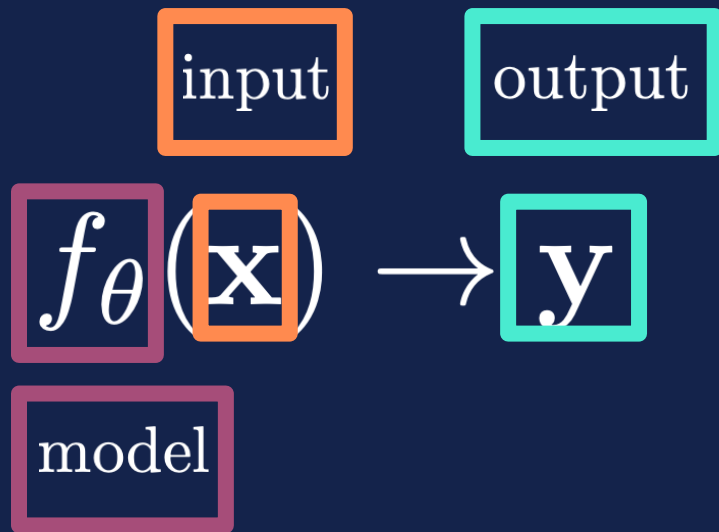
input

$$f_{\theta}(\mathbf{x}) \rightarrow \mathbf{y}$$

input

output

$$f_{\theta}(\mathbf{x}) \rightarrow \mathbf{y}$$



$$f_{\theta}(\mathbf{x}) \rightarrow \mathbf{y}$$

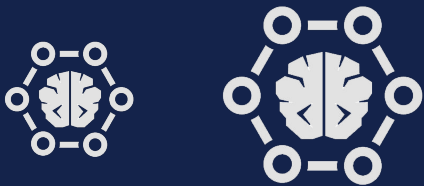
model

1

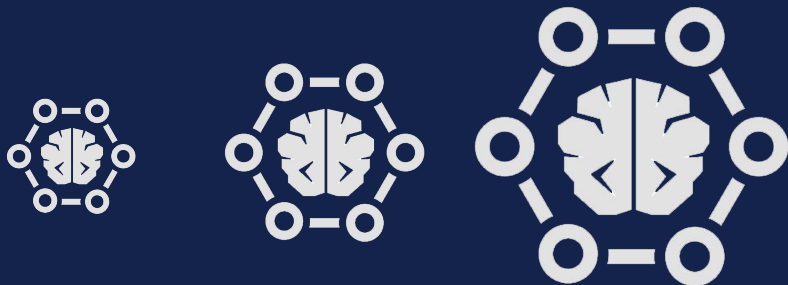
θ



$$\theta \longrightarrow \theta$$



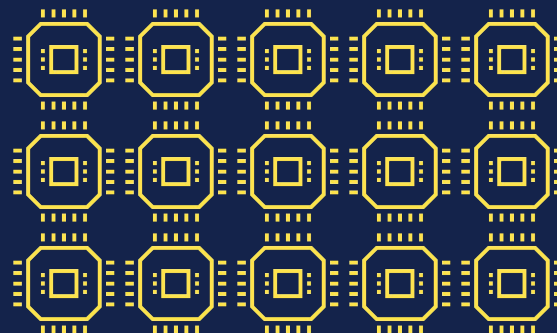
$$\theta \longrightarrow \theta \longrightarrow \theta$$





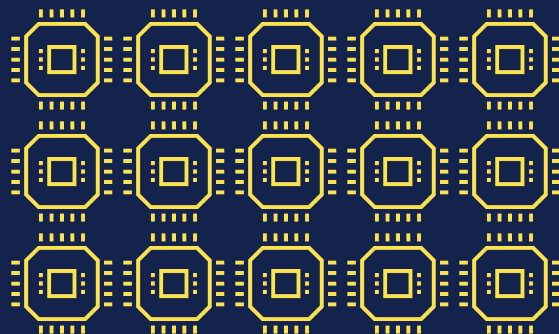








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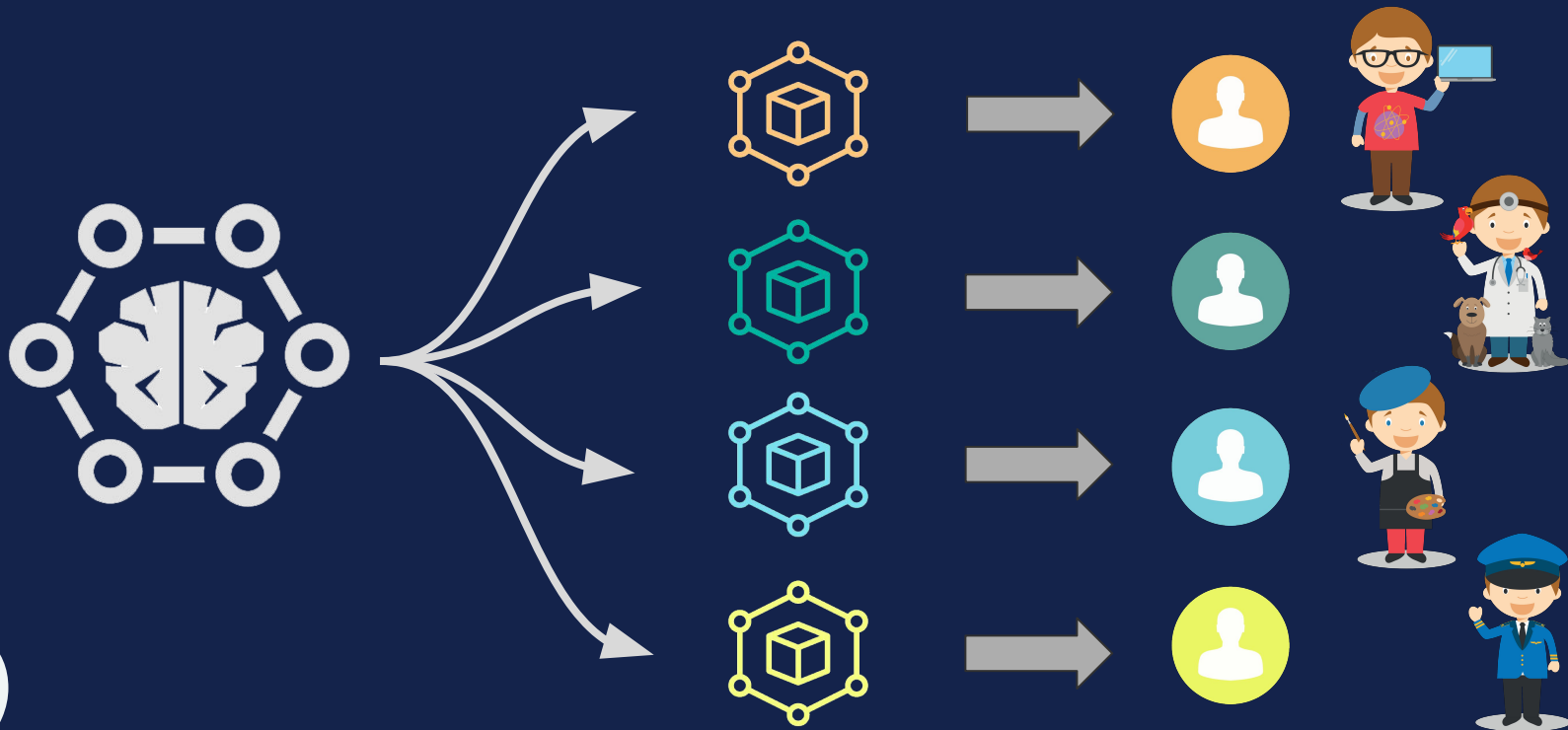








2







3

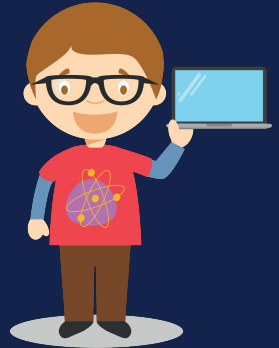


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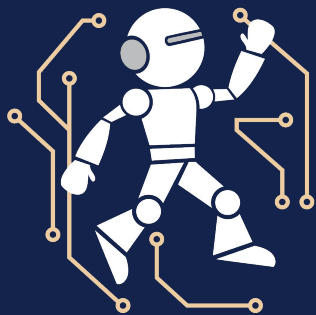


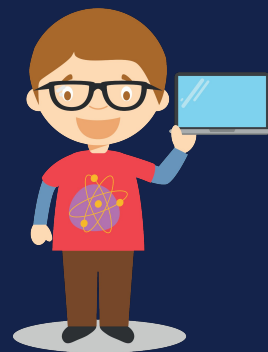
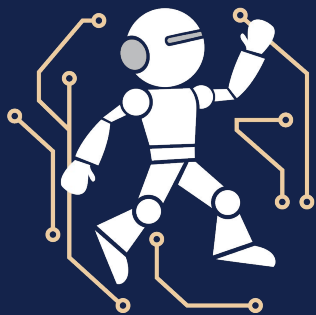
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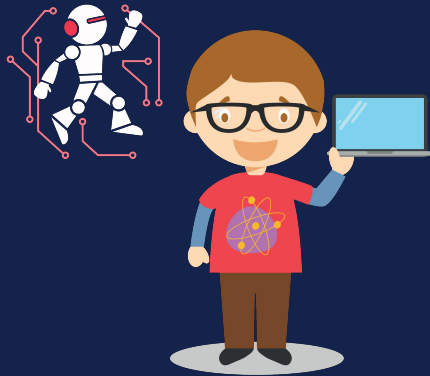












tack շնորհակալություն Danke
ありがとうございました Salamat
grazie **Thank you** mulțumesc
धन्यवाद நன்றி
Terima kasih Dankie 감사합니다 Merci
Спасибо شكرا جزىلا σας ευχαριστώ
teşekkür ederim 谢谢 cảm ơn bạn