03 →

Data Analysis

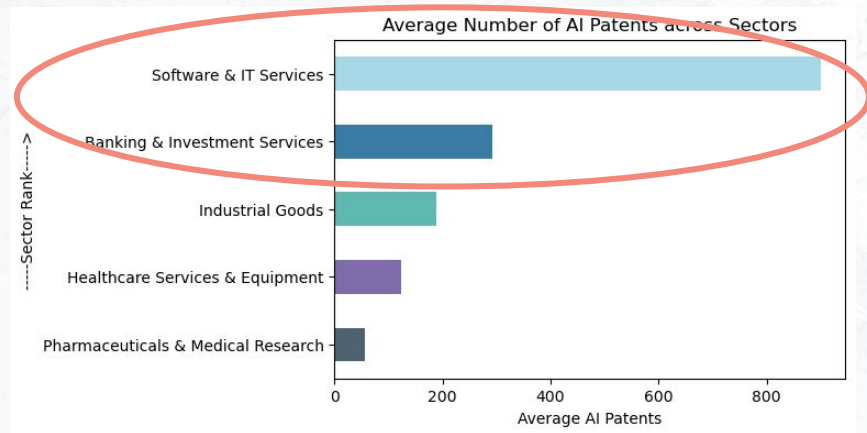|	**Patent-related**	**Publication-related**
Number-related	Average Number of AI Patents across Sectors	Average Number of AI Publication across Sectors
Growth-related	Average AI Patent Growth across Sectors	Average AI Publications Growth across Sectors

Average Number of AI Patents across Sectors

Sector Rank---->

- Software & IT Services
- Banking & Investment Services
- Industrial Goods
- Healthcare Services & Equipment
- Pharmaceuticals & Medical Research

Average AI Patents (0, 200, 400, 600, 800)

Average Number of AI Publication across Sectors

Sector Rank---->

- Software & IT Services
- Industrial Goods
- Pharmaceuticals & Medical Research
- Healthcare Services & Equipment
- Banking & Investment Services

Average AI Publication (0, 200, 400, 600, 800)

Average AI Patent Growth across Sectors

Sector Rank---->

- Software & IT Services
- Banking & Investment Services
- Healthcare Services & Equipment
- Pharmaceuticals & Medical Research
- Industrial Goods

Average Patent Growth (0, 20, 40, 60, 80, 100, 120, 140)

Average AI Publications Growth across Sectors

Sector Rank---->

- Pharmaceuticals & Medical Research
- Banking & Investment Services
- Software & IT Services
- Healthcare Services & Equipment
- Industrial Goods

Average AI Growth (0, 20, 40, 60, 80, 100, 120)

Vertical analysis – #1: Quantity corresponding to growth?

AI patents

Patent Growth

Average Number of AI Patents across Sectors

Consistent! – IT & Banking proportionately similar & stays at the top 2.
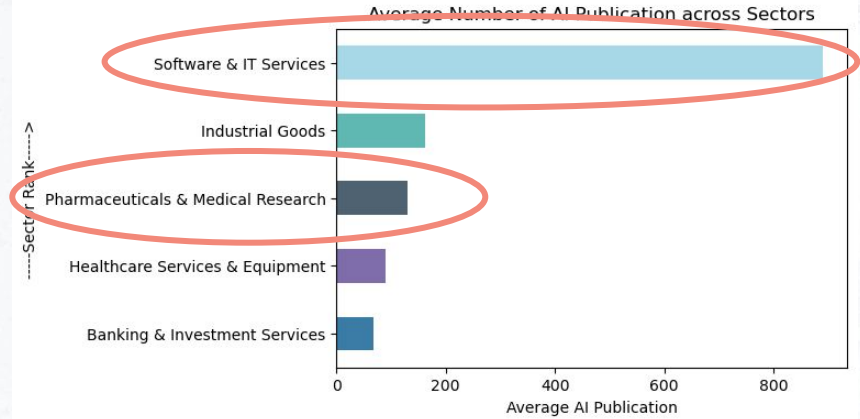

Average AI Patent Growth across Sectors

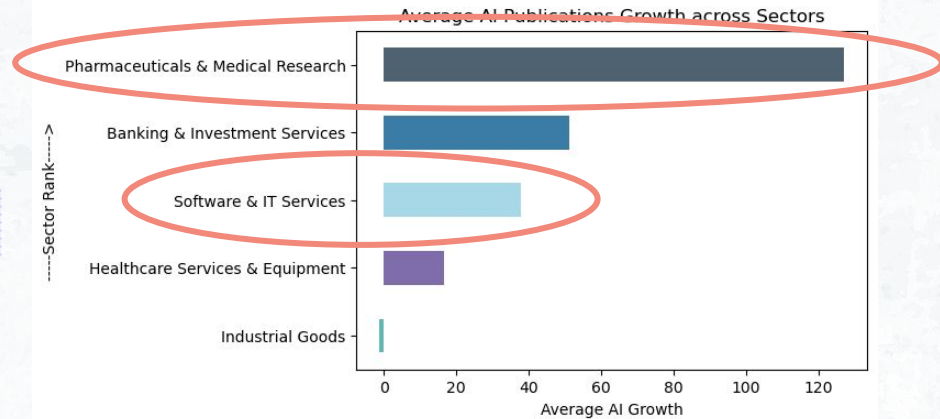# Vertical analysis – #1: Quantity corresponding to growth?

AI publications

Publication Growth

NOT Consistent! – Relative to the others, Software and IT has low growth in AI publications, while Pharma rises

Average Number of AI Publication across Sectors
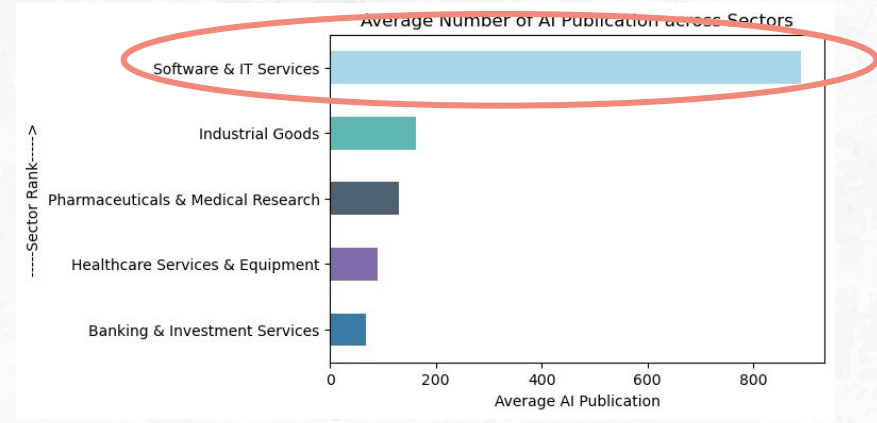

Average AI Publications Growth across Sectors
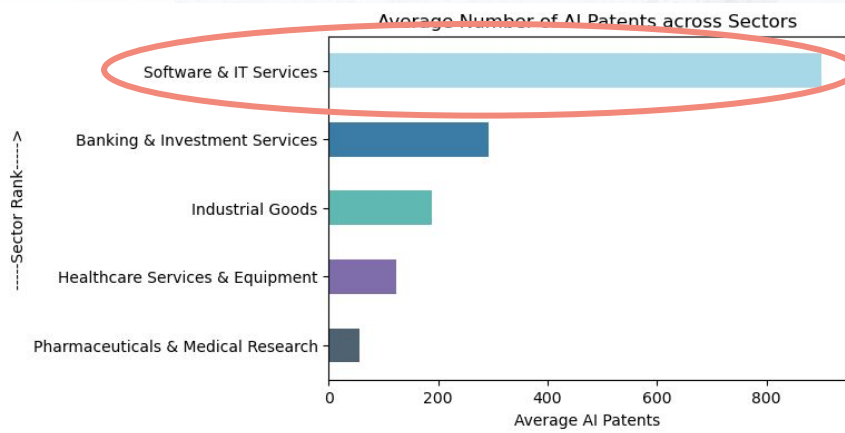
Horizontal Analysis – #2 Consistent Quantity?

<u>Rather Consistent</u> – IT stays proportionately at the top

AI patents

AI publications

Average Number of AI Patents across Sectors

- Software & IT Services
- Banking & Investment Services
- Industrial Goods
- Healthcare Services & Equipment
- Pharmaceuticals & Medical Research

Sector Rank---->

Average AI Patents: 0, 200, 400, 600, 800

Average Number of AI Publication across Sectors

- Software & IT Services
- Industrial Goods
- Pharmaceuticals & Medical Research
- Healthcare Services & Equipment
- Banking & Investment Services

Sector Rank---->

Average AI Publication: 0, 200, 400, 600, 800
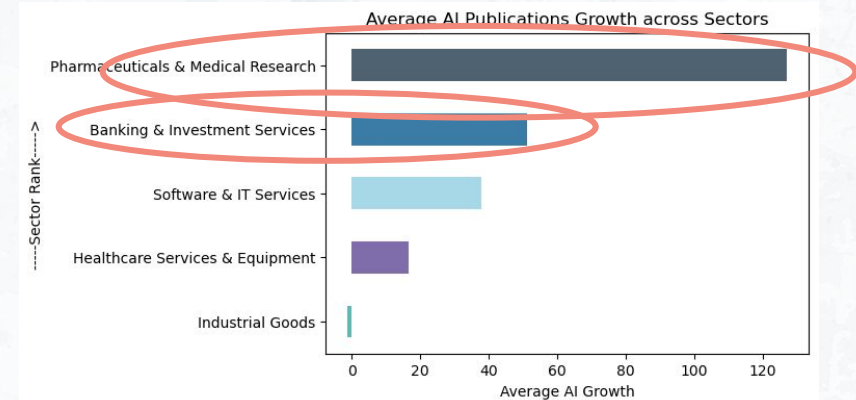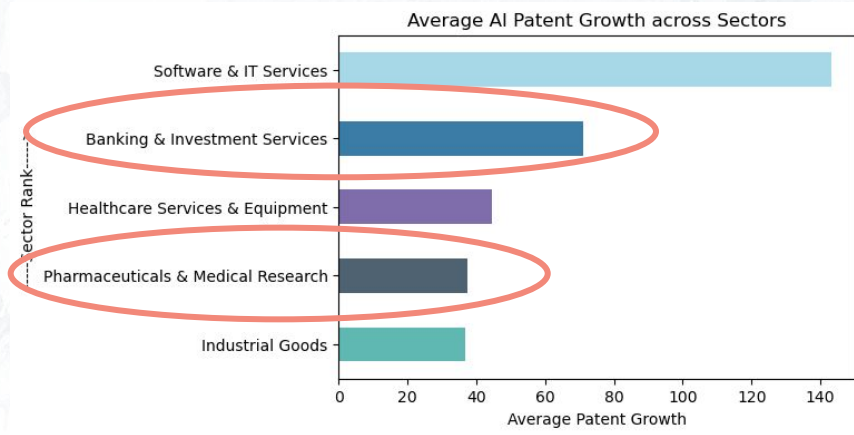
Horizontal Analysis – #3 Consistent Interest?

<u>Not Consistent!</u> – Again, Pharma has extremely high publications
growth relative to the others

Patents Growth

Publications Growth

Average AI Patent Growth across Sectors

Average AI Publications Growth across Sectors