

AI Innovations on the Rise

Exploring Key Trends and Developments from 2021 to 2025



Report: AI Trends Dashboard (2021–2025)

1. Introduction

Artificial Intelligence (AI) is one of the fastest growing fields, with applications across industries, research, and business. This project analyzes **global AI adoption trends (2021–2025)** using Power BI.

- **Dataset:** AI_Trends.csv
- **Data Fields:** Year, Topic, Country, Category (Research / Industry / Business), Count, Coordinates (Lat/Long).
- **Goal:** Create an **interactive dashboard** to visualize adoption patterns, identify top AI topics, and study global category distribution.

2. Dashboard Components

The dashboard was designed with **key performance indicators (KPIs), charts, and interactive filters** to explore AI trends.

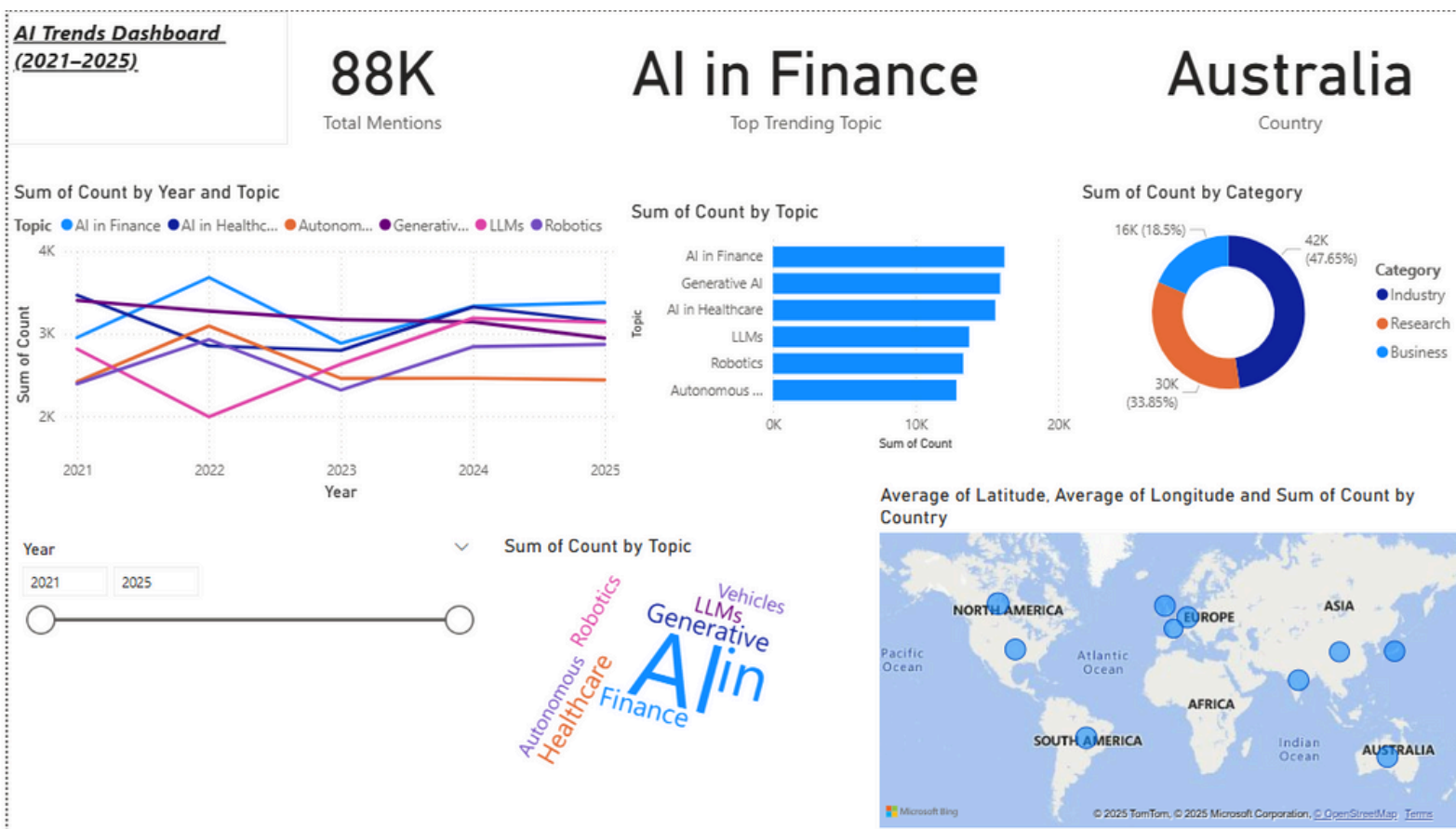
- **KPI Cards:**
 - **Total Mentions:** 88K
 - **Top Trending Topic:** AI in Finance
 - **Top Country:** Australia
- **Line Chart:** AI Topics vs Year → shows how adoption changed from 2021 to 2025.
- **Bar Chart:** Ranking of AI topics (AI in Finance, Generative AI, Healthcare, etc.).
- **Donut Chart:** Category distribution → Industry (47.65%), Research (33.85%), Business (18.5%).
- **Word Cloud:** Highlights most common AI topics (Finance, Generative AI, Healthcare).
- **Map Visualization:** Bubble map using latitude & longitude → shows country-level AI adoption.
- **Slicer (Timeline):** Interactive filter to switch between years 2021–2025.

3. Insights

From the dashboard, the following **insights** were observed:

1. **AI in Finance** is the top trending topic with the highest mentions.
2. **Generative AI** gained rapid adoption in 2024–2025, reflecting real-world tech trends.
3. **Healthcare, Robotics, and LLMs** also show consistent growth.
4. **Australia** appears as the top contributing country in this dataset.
5. **Industry** dominates AI adoption (47.65%), followed by **Research** and **Business**.
6. Year-wise, there are fluctuations, but 2024–2025 show a surge in Generative AI and LLMs.

4. Dashboard Snapshot



5. Skills Demonstrated

This project shows the following technical and analytical skills:

- **Power BI:** Designing dashboards, KPIs, slicers, charts, and map visualizations.
- **Data Analysis:** Extracting trends, comparing AI categories, and generating insights.
- **Data Storytelling:** Converting raw data into meaningful, visual insights.
- **AI Awareness:** Understanding how AI adoption varies across years, countries, and industries.

6. Conclusion

The **AI Trends Dashboard (2021–2025)** highlights how AI adoption is evolving worldwide.

- **AI in Finance** is leading, while **Generative AI** is emerging rapidly.
- Industry adoption remains stronger than research and business use cases.
- Geographic analysis shows strong representation from countries like Australia.

This project demonstrates practical **data visualization and reporting skills**.

7. File Information

- **Power BI File:** AI_Trends_Dashboard.pbix
 - **Dataset:** AI_Trends.csv
 - **Report PDF:** AI_Trends_Dashboard_Report.pdf
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