

# TRENDS IN ARTIFICIAL INTELLIGENCE - REPORT



**Prediction Team**

13 Feb 2017

This Report provides trends & correlations to strategically support the Business development.

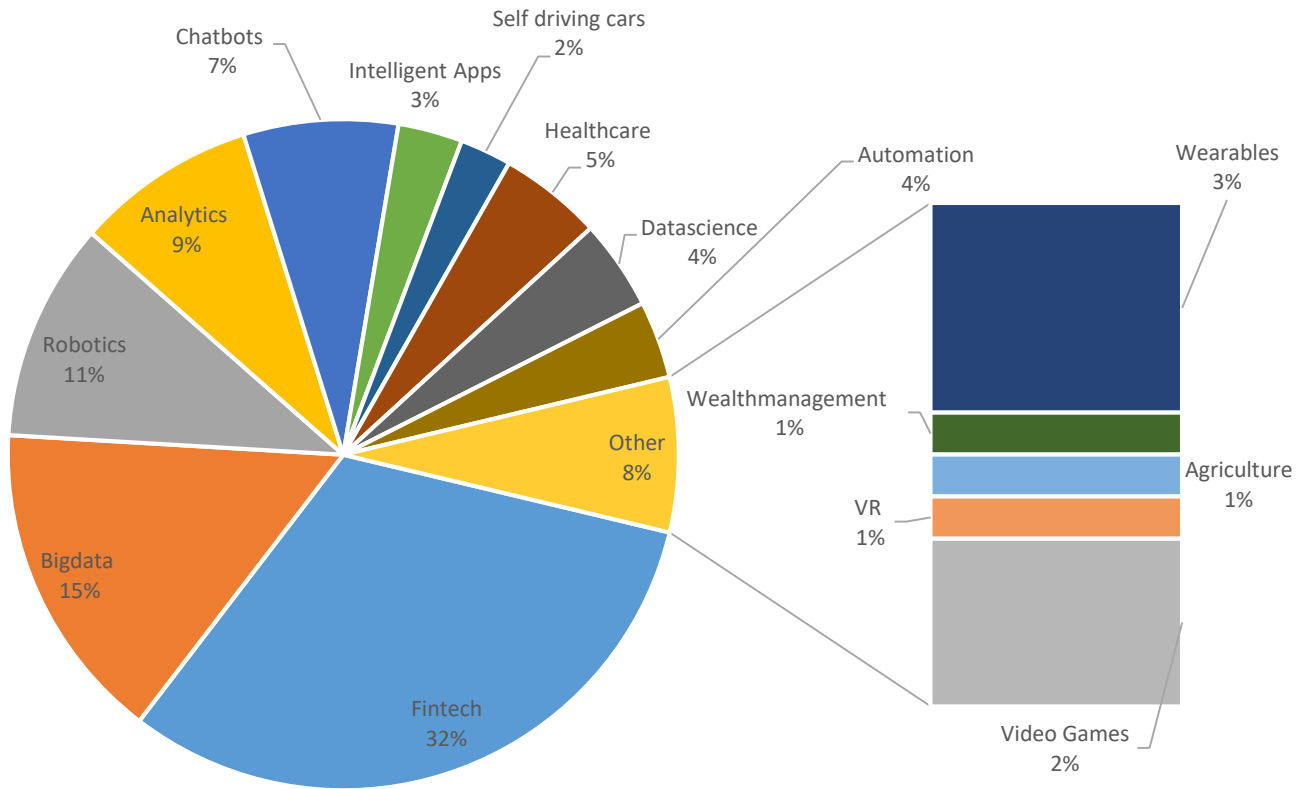
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# OVERVIEW OF AI TRENDS

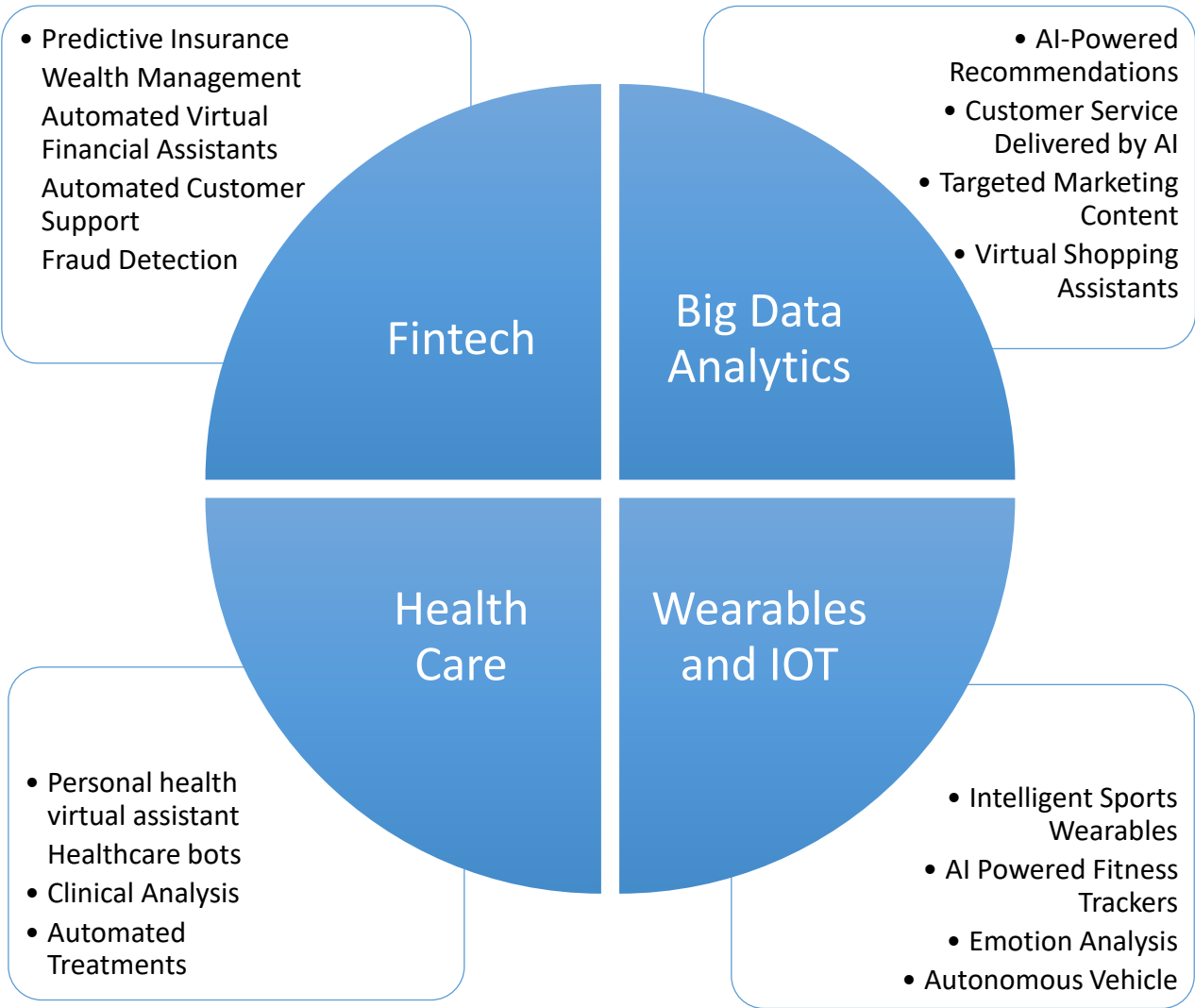


- Fintech
- Bigdata
- Robotics
- Analytics
- Chatbots
- Intelligent Apps
- Self driving cars
- Healthcare
- Datascience
- Automation
- Wearables
- Wealthmanagement
- Agriculture
- VR
- Video Games

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# MAJOR AI TRENDS



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## ARTIFICIAL INTELLIGENCE IN FINTECH

Finance has always been the core of any business being done, the integration of AI into the financial sector will have many impacts. At the most rudimentary level, costs will be reduced as efficiency increases. Computers digest much more information than humans whilst making fewer mistakes. Allowing for a better analysis of data and greater scalability of systems.

In financial services AI is being similarly deployed in the back-end to power decision making in lending, trading, and financial analysis, and in the front-end to power the customer-facing services.

AI-powered machines in the form of bots are being “humanized” to become the main interface for interactions between financial services firms and potential or existing customers. Connected networks of bots mean that the next stage of “robo-advisors” will constantly be testing and improving their interactions with customers to provide maximum customer satisfaction and to optimize revenues.

Fintech AI revenue to grow **960%** by 2021, driven by Big Data, Distributed Computing & Connectivity

**41** Startups Bringing AI to Fintech

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## INSIGHTS OF ARTIFICIAL INTELLIGENCE IN FINTECH

- ✓ Predicting bad loans.
- ✓ Building credit risk models.
- ✓ Algorithms to pinpoint the top 15% that are most likely to repay their loans.
- ✓ Models to protect against fraud.
- ✓ Models to accurate credit decisions from data.
- ✓ Alerts users to bad chargers.
- ✓ Spend analytics - visualize spending by date and category. Personalize with custom categories.
- ✓ Identify significant or newsworthy posts from data source and flags them for clients in real time.
- ✓ Identity eye vein pattern to avoid fraud detection.
- ✓ Protects users against cyber threats like account takeovers, man in browser, malware and remote access (RAT) attacks.

## FINTECH COMPANIES

Kasisto

 Alpaca

INSURIFY

**AYASDI**

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## ARTIFICIAL INTELLIGENCE IN BIG DATA ANALYTICS

Big data companies have more consumer data, and more kinds of data, available to them than ever before — far more than humans and their current technologies can ever hope to keep up with. And as companies fall further and further behind, they miss countless opportunities to learn from that data and apply what they learn to how they connect with consumers.

Forrester predicts investment in artificial intelligence will grow **300%** in **2017**

There are limits to what human beings can do with data at the rate at which it's growing. AI closes the gap by moving far past human limitations to consume and analyse data - algorithmic power to make sense of all that data

Big data and business analytics will grow from **\$130.1 billion** in **2016** to more than **\$203 billion** in **2020**

“The goal is to make suggestions based on what you actually like”.

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## INSIGHTS OF ARTIFICIAL INTELLIGENCE IN BIG DATA

- ✓ Apply AI algorithms to the data collected from shoppers to recommend appropriate gifts.
- ✓ Personalize product recommendation for cosmetics.
- ✓ Personalized video/movie recommendations
- ✓ Virtual assistants for retail purposes.
- ✓ Interactive assistants for shoppers to find like right size, fit and style
- ✓ Branded product recommendations.
- ✓ Intelligent voice automation(IVA) system to take order and respond to order status calls.
- ✓ Customer service bots to Show home products.
- ✓ AI to analyse the content and create a website that's based on that analysis.
- ✓ AI to decide the most effective wording for ads.

## BIG DATA COMPANIES



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## ARTIFICIAL INTELLIGENCE IN HEALTHCARE

Health care doesn't have a big data problem. It has a big data OPPORTUNITY, thanks to artificial intelligence, the amount of data in health care is mind-boggling. As more traditional forms of information like patient records become electronic, we also have new sources of data being digitized — think 4D images of the body and high-resolution genomes

Increased integration of intelligent AI tools in everyday medical applications could improve the efficiency of treatments and avoid costs by minimizing the risks of false diagnosis, facilitate more targeted pre-operative planning, and reduce the risk of intra-operative complications.

**Forrester Predicts Investment in Artificial Intelligence Will Grow 300% in 2017**

**By 2025, AI healthcare systems can answer specific patient queries**

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## INSIGHTS OF ARTIFICIAL INTELLIGENCE IN HEALTHCARE

- ✓ Diagnose eye disease from the images taken using existing smartphone apps.
- ✓ Helping clinicians move away from pagers and paper lists with WhatsApp.
- ✓ Artificial Intelligence and LED can Diagnose Cataract.
- ✓ Improves Cancer Diagnosis.
- ✓ Artificial intelligence for smart patient care.
- ✓ Helps Identify Effective Cancer Drug Combinations.
- ✓ Personalized plan to optimize your diet, nutrition and exercise regime.
- ✓ Automate the discovery of clinical best practices from data.
- ✓ Health advice in a flash through chat bots.

## HEALTH CARE COMPANIES



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## ARTIFICIAL INTELLIGENCE IN WEARABLES AND IOT

Wearables and Internet of Things (IoT) may give the impression that it's all about the sensors, hardware, communication middleware, network and data but the real value (and company valuation) is in insights, AI and machine learning that are becoming indispensable tools for insights.

17 IoT companies uses AI. IoT revenue may reach **\$357 billion** by **2018**

The Internet-of-Things and wearables provides us with lots of sensor data, Big data and data visualization techniques allow us to gain new insights by batch-processing and off-line analysis. Real-time sensor data analysis and decision-making is often done manually but to make it scalable, it is preferably automated. Artificial Intelligence provides us the framework and tools to go beyond trivial real-time decision and automation use cases for IoT.

Wearable Tech to hit **\$19 Billion** by **2018**

Its Applications are extremely wide spread. They range from very simple information for consumer market devices till long-term monitoring for professional users.

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## INSIGHTS OF ARTIFICIAL INTELLIGENCE IN WEARABLES AND IOT

- ✓ Wearable AI system can detect emotion from the wearers voice conversation.
- ✓ AI controlled jacket that can keep you comfortable whatever the weather.
- ✓ Artificial intelligence wearable helps lower anxiety.
- ✓ Create new recipes that appeal to the user’s sense of taste, creating optimized menus for everyone, and automatically adapting to local ingredients.
- ✓ Visualizes the emotional reaction of participants to brand, which increases brand loyalty.
- ✓ Real-time data to caregivers, such as when medication has been removed or a dose skipped.

## WEARABLES & IOT COMPANIES



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## RECENT ACQUISITION

BUYER	TRANSACTION AMOUNT	TRANSACTION DATE	ACQUIRED	DESCRIPTION
Chan Zuckerberg Initiative	unknown	Jan 23, 2017	Meta	AI for science - helps researchers understand what is happening globally in science and shows them where science is headed.
Microsoft	unknown	Jan 13, 2017	Maluuba	Conducting research in deep and reinforcement learning
Amazon	\$20M	Jan 9, 2017	harvest.ai	AI-based analytics, user and entity behavior analytics
General Electric	unknown	Nov 15, 2016	wise.io	Predictive intelligence for agents to be more productive and focus customers' needs
google	unknown	Sep 19, 2016	api.ai	Conversational User experience platform - enabling brand unique, natural language interactions for bots, applications, services and devices.
Microsoft	unknown	Aug 22, 2016	Genee	AI-powered scheduling service.

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Ford Motor Company	unknown	Aug 16, 2016	SAIPS	Provides customized algorithmic engines that are based on Deep Neural Networks - object detection and tracking, Anomaly Detection, image alignment ,3d image processing, image enhancement
Intel	\$350,000,000	Aug 16, 2016	Nervana	Deep learning platform
Apple	\$200,000,000	Aug 16, 2016	Turi	ML modelling tool

## DATA SOURCE

- [Twitter.](#)
- [Stack Overflow.](#)
- [Crunch base.](#)
- [AngelList.](#)
- [Index.co.](#)
- [Forbes.](#)
- [MIT Review.](#)
- [Wired.](#)

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