



*Transforming the Capture & IDP Space:*

# A Glimpse Into The AI Revolution

---

Leveraging the Power of AI to Redefine Business Operations

By GARY FOWLER

Founder and CEO of GSD Venture Studios



# Generative AI & Infobesity

- **Generative AI** is a branch of artificial intelligence that employs machine learning algorithms, particularly deep learning techniques, to create outputs similar to the data they have been trained on
- **Infobesity or information overload**, alternatively, is a state where the volume of potentially useful and relevant information exceeds an individual's capacity to absorb, process, and make use of it

AI can serve as a  
**"companion and assistant"**  
to alleviate the problem of information  
overload.



# Generative AI as a Companion and Assistant

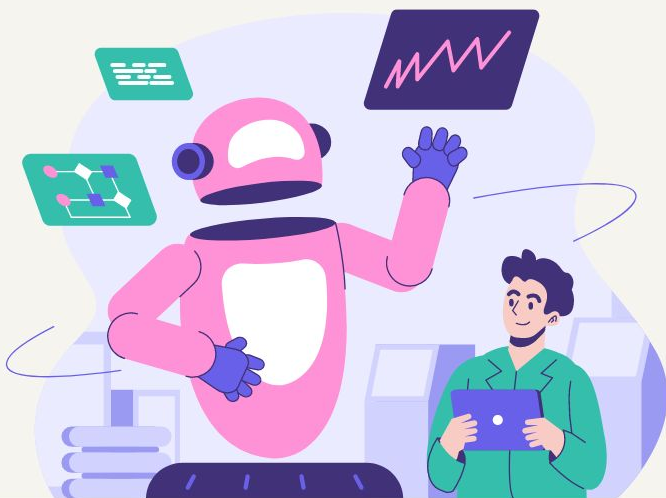


Here is a few practical ways it can assist us:

- Personal Assistance
- Content Creation
- Data Analysis
- Education and Training
- Healthcare Assistance

# The Mechanics of Generative AI

## 1. The Training Phase



## 2. Data Generation Phase



# The Mechanics of Generative AI

## 1. The Training Phase

- In this phase, generative models learn to create new content by being fed a large amount of data as 'examples' from which to learn.
- The model learns by recognizing patterns, structures, and elements within the input data.

## 2. Data Generation Phase

- Once the model has been adequately trained, it enters the data generation phase.
- In this phase, the model leverages what it learned during training to generate new, unseen data.
- For instance, a model trained on music can compose its own original piece, or one trained on text can write its own story.



# Case Studies on Generative AI Managing Information Overload

## #1 Personalizing News with Generative AI



**Problem:** Abundance of news sources available today and keeping up with relevant news

### **Solution:**

- Analyzing a user's reading habits
- Predict and generate a personalized news feed
- Filtering out irrelevant information and focusing on topics the user cares about

### **Impact:**

- Tailored news feed
- Improved user engagement
- Users stay informed without feeling overwhelmed

# Case Studies on Generative AI Managing Information Overload

## #2 Content Generation in Marketing



**Problem:** Creating a large volume of unique, engaging content regularly, which can be a time-consuming task and often leads to a bottleneck

### **Solution:**

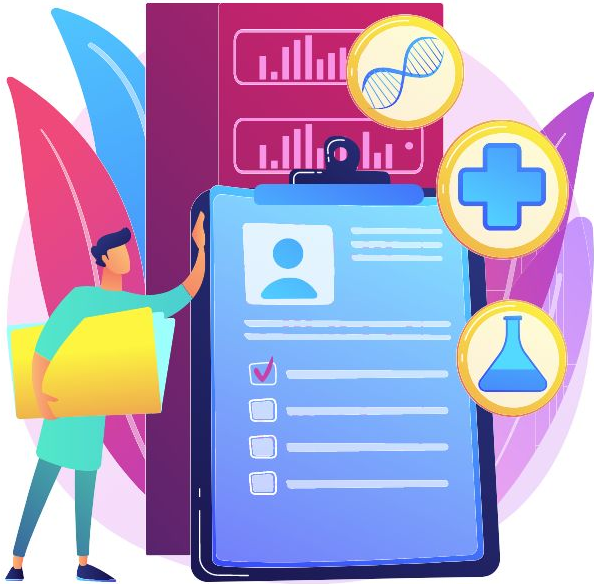
- Creating unique, contextually appropriate content for marketing campaigns, based on previous successful campaigns and current marketing trends.

### **Impact:**

- Streamlined content creation process
- Increased efficiency, allowing the marketing team to focus on strategy and higher-level tasks

# Case Studies on Generative AI Managing Information Overload

## #3 Data Analysis in Healthcare



**Problem:** Immense amount of patient data that needs to be analyzed to make informed medical decisions

**Solution:**

- Integrating Generative AI into the patient data management system to analyze patient data, recognize patterns, and generate reports highlighting critical insights

**Impact:**

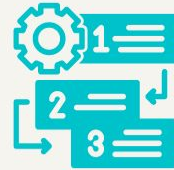
- Well managed and interpreted vast amounts of patient data
- Streamlined decision-making processes, ultimately leading to better patient outcomes



# Tackling "Infobesity" with Generative AI



**Data Filtering**



**Prioritization**



**Presentation**

# Accelerating Decision-Making and Productivity with Generative AI

---



- Business Intelligence
- Predictive Analytics
- Personalized Recommendations
- Automation

# Capitalizing on the Benefits of Generative AI

- ✓ Increased Efficiency
- ✓ Scalability
- ✓ Customization
- ✓ Informed Decision-Making
- ✓ Cost Savings

## What are the results of Generative AI?

# Empirical Evidence of Generative AI's Benefits

**Increased Efficiency:** A 2021 study by Accenture revealed that AI could increase business productivity by up to 40% by 2035. Generative AI, with its automation and data generation capabilities, plays a significant role in driving this productivity boost.



## What are the results of Generative AI?

# Empirical Evidence of Generative AI's Benefits

**Scalability and Customization:** E-commerce giant Amazon uses Generative AI to provide personalized recommendations to millions of customers simultaneously. According to a McKinsey report, such personalized experiences can lead to a sales uplift of 20%.





## What are the results of Generative AI?

# Empirical Evidence of Generative AI's Benefits

**Informed Decision-Making:** A survey by NewVantage Partners found that 92% of firms are increasing their pace of investment in big data and AI. Generative AI is at the forefront of this trend, helping businesses make data-driven decisions.



## What are the results of Generative AI?

# Empirical Evidence of Generative AI's Benefits

**Cost Savings:** According to a report by PwC, AI technologies, including Generative AI, could reduce business costs by up to 20% over the next five years.



# Navigating Risks and Challenges in Generative AI



**Data Privacy**



**Job Displacement**



**Misuse of Technology**



**AI Bias**



**Dependence on AI**

# Proactive Strategies for Mitigating Risks in Generative AI



**Data Privacy Regulations**



**Worker Retraining Programs**



**Ethical Technology Use Policies**



**Bias Detection and Correction**



**Human-AI Collaboration**

# Ethical Considerations in the Use of Generative AI



Transparency



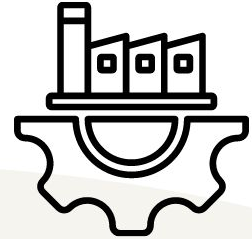
Accountability



Fairness



Privacy & Consent



Regulation



# Exploring the **Future Landscape** of Generative AI

**Advanced  
Personalization**

**Improved  
Decision  
Making**

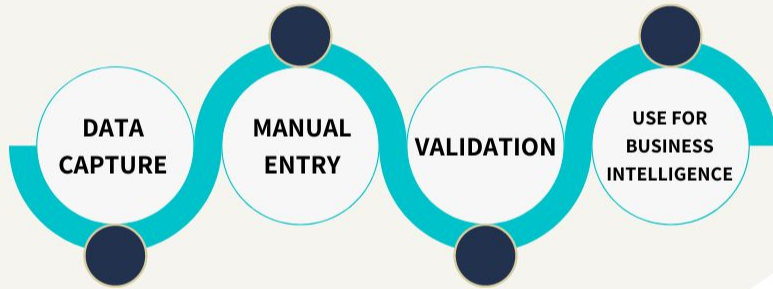
**Explainability  
and  
Transparency**

**Combating  
Misinformation**

**AI Ethics  
and Policy**

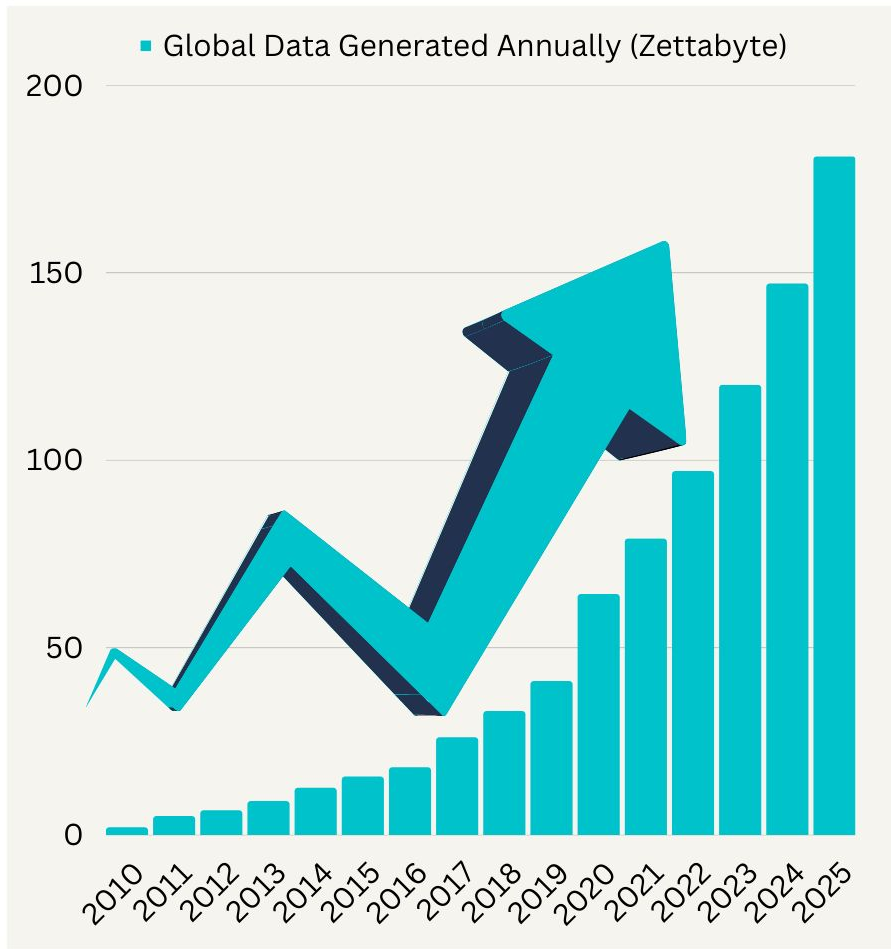


# The **Current State** of Capture & Intelligent Document Processing (IDP)



## The **challenges** in traditional Capture & IDP Processes such as:

- Manual Effort
- Inefficiency with Complex Data
- Error-Prone
- Limited Scalability
- Slow Processing Speed



Source: <https://explodingtopics.com/blog/data-generated-per-day>

# The Growing Demand for Enhanced Capture and IDP Systems

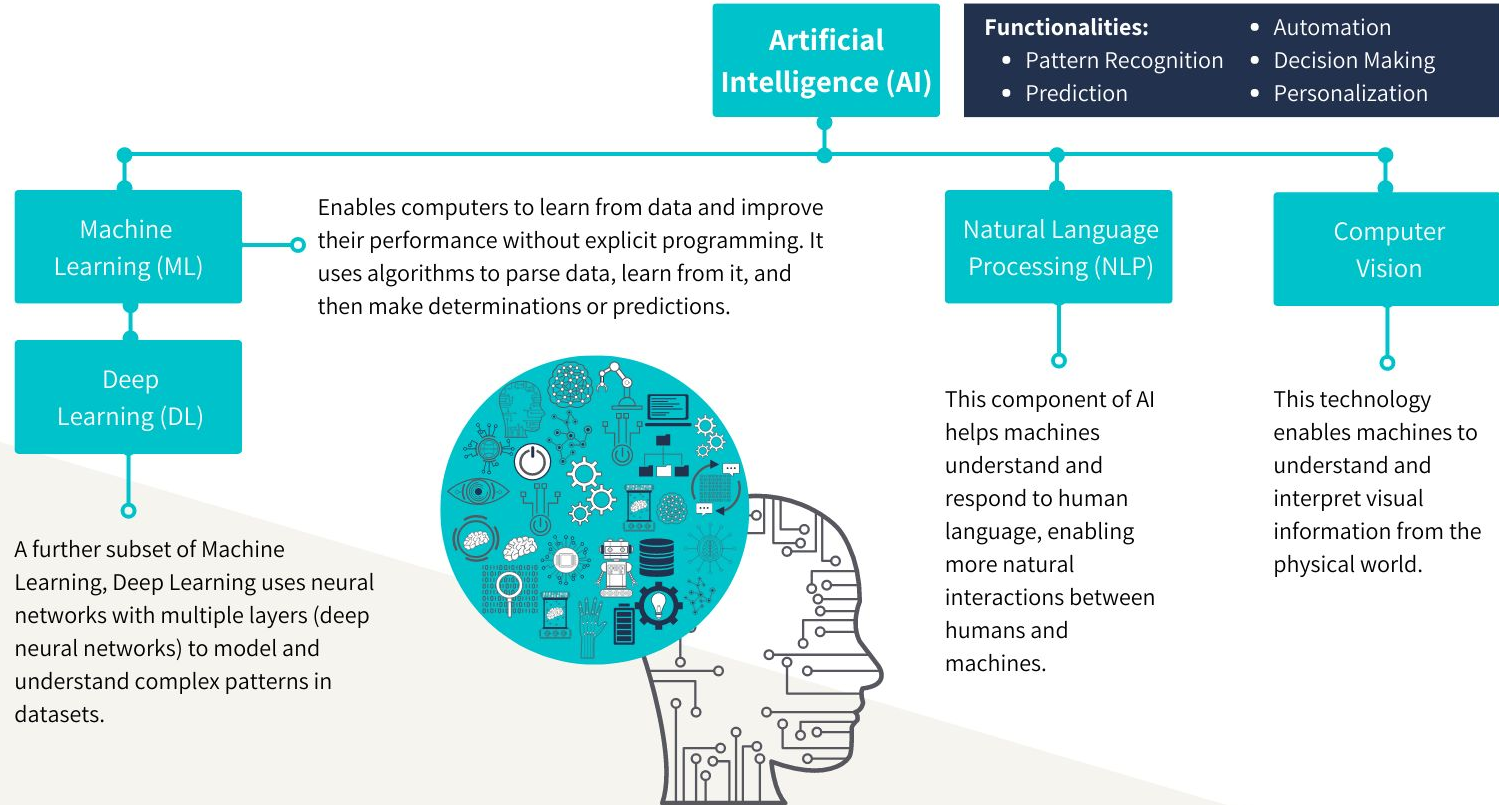
- It is estimated that 90% of the world's data was generated in the last two years alone
- The International Data Corporation (IDC) estimates that the global data sphere will grow to 175 zettabytes by 2025
- Now, there is a big need for...

Speed

Accuracy

Efficiency

# An Overview of Artificial Intelligence (AI)



# AI in Capture & Intelligent Document Processing (IDP)

## Data Capture

### Traditional:

- **Speed:** Relatively slow, manual data entry
- **Accuracy:** Prone to human errors
- **Scalability:** Limited by human resources

### AI-Enhanced:

- **Speed:** Rapid, automated data capture
- **Accuracy:** High, reduces human errors
- **Scalability:** Highly scalable



# AI in Capture & Intelligent Document Processing (IDP)

## Data Validation

### Traditional:

- **Speed:** Time-consuming, manual validation
- **Accuracy:** May miss some errors
- **Scalability:** Limited by human capabilities

### AI-Enhanced:

- **Speed:** Swift, automated validation
- **Accuracy:** High, detects most errors
- **Scalability:** Easily scalable

# AI in Capture & Intelligent Document Processing (IDP)

## Data Processing & Analysis

### Traditional:

- **Speed:** Relatively slow, manual processing
- **Accuracy:** Susceptible to human mistakes
- **Scalability:** Limited by human limitations

### AI-Enhanced:

- **Speed:** Rapid, automated processing
- **Accuracy:** High, reduces human mistakes
- **Scalability:** Highly scalable

# AI in Capture & Intelligent Document Processing (IDP)

## Automated Responses & Actions

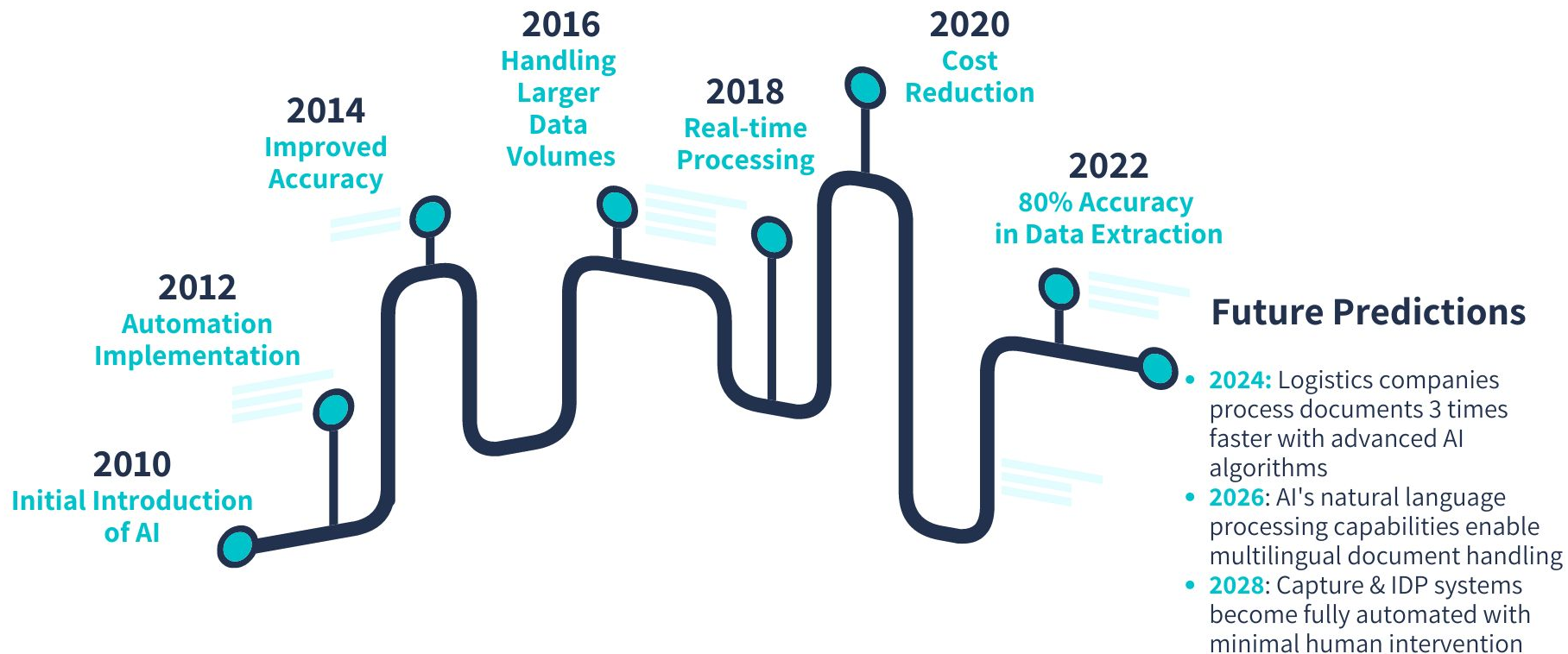
### Traditional:

- **Speed:** Delayed, manual responses
- **Accuracy:** Depends on human responsiveness
- **Scalability:** Limited by human capacity

### AI-Enhanced:

- **Speed:** Instant, automated responses
- **Accuracy:** High, consistent responses
- **Scalability:** Highly scalable

# The AI Revolution in Capture & IDP



# Challenges & Considerations in AI Implementation

## CHALLENGES



**Data Privacy & Security**



**Quality of Data**



**Integration with Existing  
Systems**



**Regulatory Compliance**



**Technical Expertise**



# Challenges & Considerations in AI Implementation

## CONSIDERATIONS

- **Define Clear Objectives:** What are the clear objectives for implementing AI? Are you focused on speeding up processes, improving accuracy, enhancing decision-making, or all of these goals?
- **Data Management:** Have you established a robust data management system to ensure high-quality input for the AI?
- **Choose the Right AI Solution:** How do you plan to choose the right AI solution? Have you thoroughly evaluated different options to find the one that best fits your needs?
- **Plan for Integration:** Have you considered how the AI solution will integrate with your existing systems and processes? Have you consulted with experts or vendors to plan for integration?
- **Prepare for Change Management:** Are you prepared for change management to effectively handle the significant workflow and role changes that the adoption of AI may bring?



**Advanced Data Extraction**



**Improved Data Classification**



**Enhanced Data Synthesis**



**Predictive Analysis**



**Data Enrichment**

# **Impact of Generative AI on Capture & IDP**



---

# Summary and Conclusion

---



*Gary Fowler*

CEO & Founder of **GSD Venture Studios**

[www.gsdvs.com](http://www.gsdvs.com)

[hello@gsdvs.com](mailto:hello@gsdvs.com)



**Thank you!**