

"Empowering the Future: Data Analytics, Artificial Intelligence, and ChatGPT"



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Welcome and introduction

In this presentation, we will delve into three transformative topics:

- Data Analytics
- Artificial Intelligence
- ChatGPT

These are not just buzzwords; they are shaping the way we make decisions, create solutions, and communicate. Today, we'll explore how they work, their applications, and their impact on our future and a **business gateway between Latin American and North American companies**

•Definition of Data Analytics

- Process of extracting, examining, cleaning, transforming, and interpreting data

•Importance in Decision Making

- Discover valuable insights and support data driven decision-making
- This leads to better user experiences, a unified data truth and business growth

•Real-world Examples (Netflix, Spotify)

- Use data analytics to recommend content to users based on their preferences
- Customer 360 – personalized marketing and product development



• Data Analytics Process

- Data collection
- Data processing
- Data modeling
- Data governance
- Data visualization (dashboards)

• Types of Data Analytics

- Descriptive analytics (what happened),
- Predictive analytics (what might happen)
- Prescriptive analytics (what should be done)

• Data Analytics Team

- CDO – Chief Data Officer
- Data Architects – where is the data and how to collect it and make it available
- Data Engineers – examine, cleaning, transforming
- Data scientists – correlate, infer, predict



What is AI and its impact?

- AI refers to machines or software that can mimic human intelligence.
- Transforming industries and opening new possibilities

Key Applications

It's the technology behind advancements like

- Process automatization
- Autonomous robotics
- Improving healthcare with diagnostic algorithms
- Revolutionizing finance with high-frequency trading
- Process optimization
- Siri – voice assistant
- Autonomous cars

AI Subfields

Machine Learning and Deep Learning are critical components.

- Machine Learning enables machines to learn from data and make predictions
- Deep Learning uses neural networks to simulate human brain functions

- It's a cutting-edge language model developed by OpenAI
- ChatGPT can understand and generate human-like text responses, making it a powerful tool for enhancing communication in various applications.
- Use Cases
 - Customer Support
 - Content Creation
 - Language Translation

•How ChatGPT Works

- It operates by using vast datasets to learn language patterns and generate text responses
- It's an example of AI-powered natural language processing, and it's remarkably efficient



The Power of Data Analytics and AI and their future

- The synergy between Data Analytics and AI is a game-changer.
 - AI can automate complex data analysis, identifying patterns and trends that humans might miss
 - This enhances decision-making. For example, in healthcare, AI helps analyze patient data to predict disease outcomes

The Future of AI and ChatGPT

- The future holds incredible potential
 - Advancements in AI, like quantum computing and more powerful neural networks, will further revolutionize technology
 - ChatGPT is also evolving, promising even more sophisticated natural language understanding
 - It is accessible to everyone – democratization of data
 - These innovations will have applications in fields as diverse as healthcare, education, and entertainment

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Challenges and concerns

- Despite these exciting advancements, there are challenges and concerns
 - Data privacy and security issues must be addressed
 - Bias and fairness in AI algorithms are crucial to prevent discrimination
 - As AI and data analytics continue to grow, new challenges will emerge, continuously demanding new solutions
- But let's not lose sight of the immense benefits and opportunities
 - The fusion of data analytics and AI contributes to economic growth
 - Fosters more informed decision-making
 - Elevates user experiences
 - By embracing these technologies responsibly, we can build a brighter future

Impact of Data Analytics, AI and ChatGPT

To demonstrate how AI and ChatGPT can help or improve day-to-day activities, you can use several key metrics and KPIs (Key Performance Indicators) to measure their impact. These metrics can vary depending on the specific application and objectives, but here are some general metrics that can be useful:

Efficiency Metrics:

1. **Response Time:** Measure the time it takes for AI systems, including ChatGPT, to provide responses. Faster response times can lead to more efficient interactions.
2. **Throughput:** Assess the number of interactions or tasks that AI can handle simultaneously, indicating its capacity to support multiple users or processes.
3. **Error Rate:** Monitor the accuracy of AI-generated responses to ensure it doesn't introduce errors or misunderstand user inputs.

Productivity Metrics:

1. **Task Completion Rate:** Measure the percentage of tasks or user requests that are successfully completed by AI without human intervention.
2. **Time Saved:** Calculate the time saved by using AI, which can be a strong indicator of efficiency and productivity improvements.

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Customer Satisfaction Metrics:

1. **User Satisfaction Surveys:** Collect feedback from users to gauge their level of satisfaction with the AI system's performance.
2. **Net Promoter Score (NPS):** Assess how likely users are to recommend the AI-driven service to others. A higher NPS indicates higher user satisfaction.

Cost Reduction Metrics:

1. **Cost per Interaction:** Calculate the cost of delivering services or support using AI compared to traditional methods. AI should ideally reduce costs.
2. **Resource Allocation:** Measure the reduction in human resources required for tasks that AI can handle, leading to cost savings.

Accuracy Metrics:

1. **Precision and Recall:** In applications like chatbots for customer support, measure the precision (correctness of positive predictions) and recall (completeness of positive predictions) of AI responses.
2. **Sentiment Analysis:** Monitor the sentiment of user interactions with AI to ensure a positive experience.

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User Engagement Metrics:

1. **User Engagement Rates:** Assess how often users interact with AI systems. Higher engagement can indicate that users find the AI valuable in their day-to-day activities.
2. **Retention Rate:** Measure how many users continue to use AI services over time.

Task Complexity Metrics:

1. **Complexity Handling:** Evaluate AI's ability to handle complex or specialized tasks and how effectively it simplifies those tasks for users.

Language Understanding Metrics:

1. **Language Fluency:** Assess how well the AI system understands and generates human-like responses in natural language.

Content Creation Metrics:

1. **Content Quality:** Evaluate the quality of content generated by AI in terms of relevance, coherence, and accuracy.
2. **Content Relevance:** Measure the relevance of AI-generated content to specific user needs or contexts.

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Data-Driven Insights:

- 1. Insights Extracted:** In applications like data analytics, measure the number of valuable insights AI systems provide to inform decision-making.

Security Metrics:

- 1. Incident Reports:** Monitor security incidents related to AI systems to ensure data and user privacy are maintained.

The choice of metrics should align with your specific use case and goals. It's important to continually monitor and adapt these metrics as you implement AI and ChatGPT in real-world scenarios. Additionally, combining multiple metrics can provide a holistic view of the impact of AI on day-to-day activities, allowing you to measure and demonstrate its value effectively.



- It's essential to remember the human element in all of this
 - Humans play a crucial role in developing, maintaining, and using these technologies
 - We have an ethical responsibility to ensure fairness and accountability
 - The key is to strike a balance between automation and human judgment
- In conclusion, today, we've explored the worlds of Data Analytics, Artificial Intelligence, and ChatGPT
 - We've seen their applications, challenges, and the immense potential they hold
 - As these technologies continue to evolve, they will shape the way we work, communicate, and interact with the world

Business Gateway between Latin American and North American Companies

Reasons to Choose Latin America for Nearshore Outsourcing

LATAM can export talent that can work remotely in Data Analytics and AI projects in North America

- Data Scientists, Data Engineers, Data Reporting and Data Visualization, Prompt Engineers, among others



Latin America has developed into a hub of technological expertise and entrepreneurial activity in recent years.



Global investment to take advantage of the many initiatives in place to encourage start-ups and help them be successful.



Latin America Nearshore Outsourcing is Cost-Effective, shares the same time zone and is a good cultural fit



Latin America is the perfect solution offering the highest quality work for a much lower price than at home.

About us

*Real Time Analytics has **34 years** of experience
in **Data Analytics, AI, Big Data and BI***

***Team of +60 people**, which 80% are Analytics
Consulting Data Engineers and Data Scientists*



Real Time Analytics



We help companies to build their data analytics capabilities, needed to become a data-driven company, by providing nearshoring solutions from **Latin America**

We offer the **staffing modality** with profiles with different experience levels and focused field skills, and **work cells**, which consists of pre-built work teams formed specifically to successfully achieve the scope of a project.

**English proficiency, cultural fit,
and work-day alignment**



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