



## OPEN AI APPLICATIONS FOR MANUFACTURING SECTOR (3 WEEK ASSESSMENT)

Nous is a front runner in the AI revolution with a repository of over 2,000 AI use cases meticulously curated to cater to diverse industries. Out of which, over 200 are dedicated to manufacturing. These solutions tackle design, production, supply chain, and maintenance challenges.

AI revolutionizes industries, but custom solutions are vital due to distinct challenges. Recognizing that every industry has unique challenges, Nous provides tailored AI solutions. We offer more than 200 pre-established use cases to meet diverse needs, yet we are committed to further customization. Our experts adapt AI to your unique specifications, ensuring it is not just a leap forward but a strategic advantage for customer's success.

Below is a snapshot of the top use cases of AI in the Manufacturing industry:

### **Design and engineering**

AI can assist in designing and engineering products, components, and systems by using data analysis, simulation, and generative techniques. AI can also help in testing and validating designs and detecting and correcting errors.

### **Production and operations**

AI can automate and optimize production and operations using sensors, robotics, computer vision, and natural language processing. AI can also help monitor and control quality, safety, and performance, as well as predict and prevent failures and downtime.

### **Supply chain and logistics**

AI can improve supply chain and logistics management using data mining, forecasting, and optimization. AI can also help track and trace materials, products, and shipments, as well as coordinate and collaborate with suppliers and customers.

### **Maintenance and service**

AI can enhance maintenance and service activities using predictive analytics, diagnostics, and remote assistance. AI can also help in scheduling and dispatching technicians and provide feedback and recommendations

### **Improved quality**

AI can help manufacturers improve the quality of their products and services by ensuring consistency, accuracy, and reliability. AI can also help manufacturers meet the expectations and requirements of their customers by delivering customized and personalized solutions.

# ASSESSMENT PROGRAM AND OUTCOME

As part of this offering, Nous lets the customer choose a use case from our industry-wise use case catalog or a use case specific to a Customer. It creates a POC, demonstrating the implementation of Azure OpenAI and how the same can accelerate a Business Process and bring efficiency improvement.

A typical POC program plan will look like the following:

## Week 1: Define the AI/ML use case and scope the POC

- Work with the customer to understand their business problem, data sources, success criteria, and expected outcomes.
- Identify the relevant Azure openAI services and tools that can be used to address the use case.
- Document the POC scope, objectives, timeline, and roles and responsibilities in a POC charter.

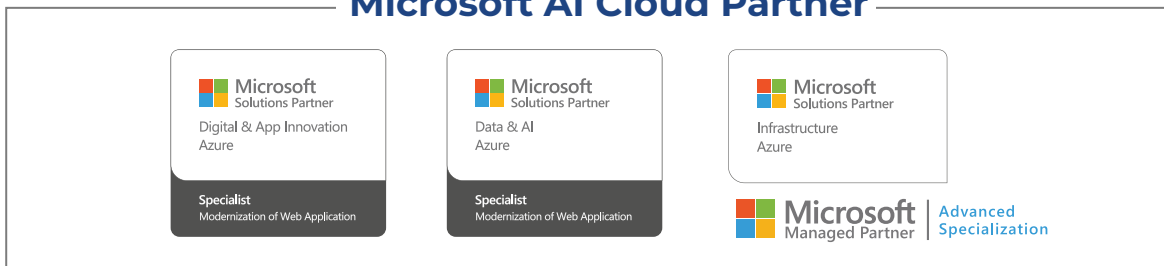
## Week 2: Develop and test the AI/ML solution

- Use the Azure openAI services and tools to build and train the AI/ML models for the use case.
- Integrate the models with the customer's data sources and applications, and test the solution for functionality, performance, and accuracy.
- Document the solution architecture, design, code, and test results in a POC report.

## Week 3: Deploy and evaluate the AI/ML solution

- Deploy the solution to the customer's Azure environment and enable them to use it in their business scenarios.
- Monitor and measure the solution's impact on the customer's key performance indicators (KPIs) and compare them with the success criteria defined in the POC charter.
- Document the deployment steps, evaluation results, lessons learned, and recommendations for next steps in a POC summary.

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