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โครงการพัฒนาศักยภาพด้านการเรียนรู้เชิงลึกสำหรับการแก้ปัญหาในศตวรรษที่ 21

# DEEP LEARNING FOR 21ST CENTURY CHALLENGES

วันที่ 5 - 6 เมษายน พ.ศ. 2568

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# KEY MILESTONES



## TENSORFLOW

Google's open-source framework, enables efficient building, training, and deploying of deep learning models across diverse platforms.

## CNNs

Convolutional Neural Networks are deep learning models designed to process images and extract spatial features using convolutional filters.

## RNN

Recurrent Neural Networks (RNNs) are deep learning models for sequential data, using internal memory to capture patterns over time.

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# TENSORFLOW USAGE

```
import tensorflow as tf
import numpy as np

# Print TensorFlow version and a constant message
print("TensorFlow version:", tf.__version__)
hello = tf.constant("Hello, TensorFlow!")
print(hello.numpy())

# Build a simple sequential model with one hidden layer
model = tf.keras.Sequential([
    tf.keras.layers.Dense(10, activation='relu', input_shape=(5,)),
    tf.keras.layers.Dense(1)
])

# Compile the model with Adam optimizer and mean squared error loss
model.compile(optimizer='adam', loss='mse')

# Create dummy data:
# 100 samples with 5 features each and corresponding targets
X = np.random.random((100, 5))
y = np.random.random((100, 1))

# Train the model for 3 epochs
model.fit(X, y, epochs=3)

# Make predictions on new data
predictions = model.predict(X[:5])
print("Predictions:", predictions)
```



THANK YOU!  
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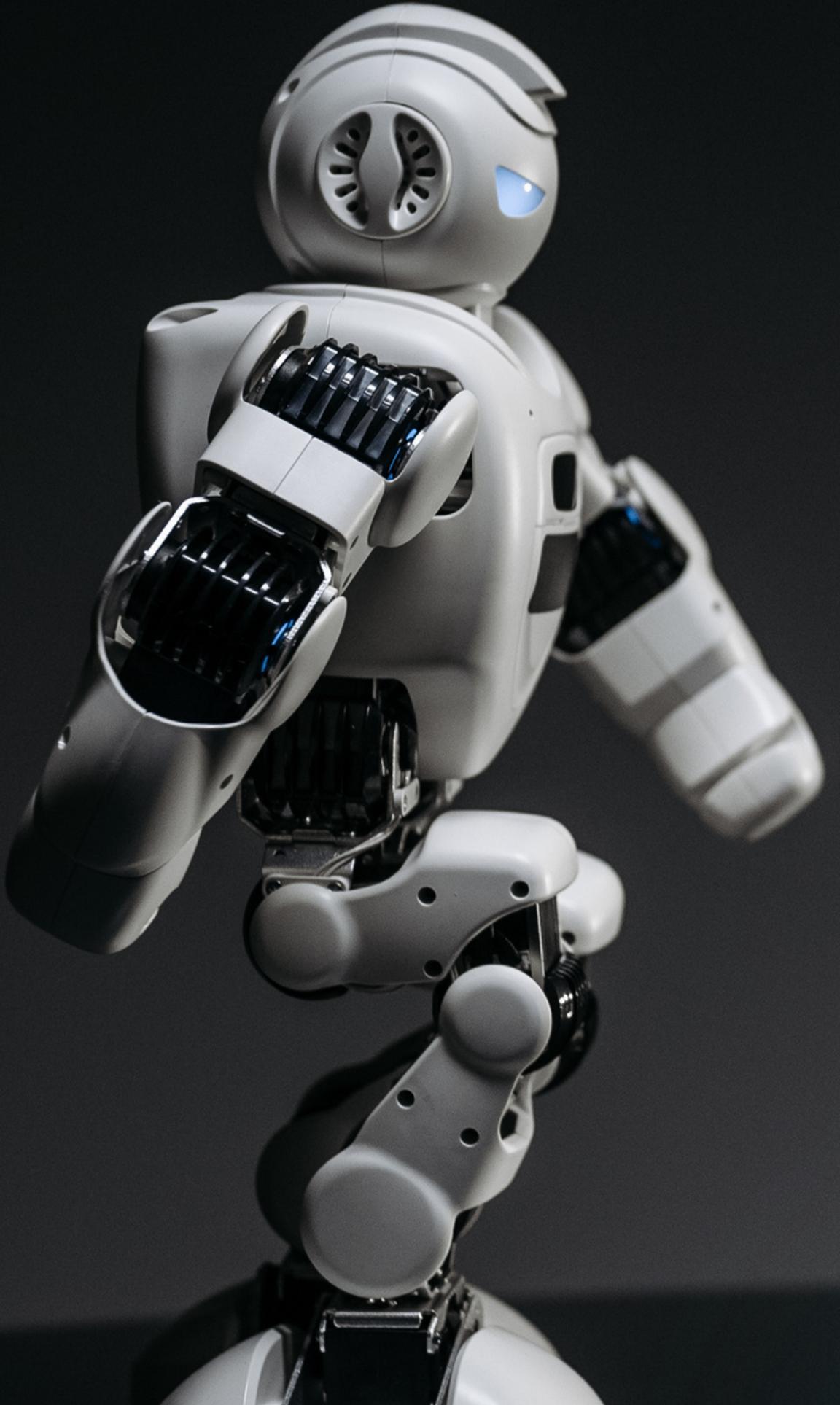
# PROJECT OVERVIEW

Studio Shodwe's Artificial Intelligence Project is a groundbreaking initiative aimed at leveraging advanced AI technologies to revolutionize various industries. Through innovative applications of machine learning, predictive analytics, natural language processing, and computer vision, our project seeks to address complex challenges and unlock new opportunities. From healthcare and finance to retail and manufacturing, our AI solutions are designed to enhance decision-making, optimize operations, and personalize user experiences. Join us as we pioneer new approaches and deliver meaningful results that make a difference in shaping the future of industries.

# PROBLEM STATEMENT

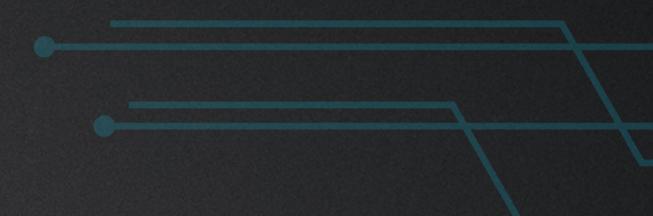
Identify the specific problem or challenge that the AI project seeks to address. Whether it's optimizing business processes, improving decision-making, or personalizing user experiences, articulating the problem provides context for the proposed AI solution and highlights the potential value it can bring to stakeholders.





# PROJECT SCOPE

Define the scope of the AI project, including the specific deliverables, timeline, and resource requirements. Whether it's developing a proof of concept, implementing a pilot program, or deploying a full-scale AI solution, the scope outlines the parameters of the project and sets expectations for stakeholders.



# KEY MILESTONES

The project timeline is divided into key milestones, including platform design, development, testing, and deployment. Each milestone represents a significant achievement or phase of the project, with specific deliverables and deadlines. Clear milestones provide visibility into project progress and facilitate effective communication and decision-making among project stakeholders.

