**Assignment 1: Idea for a Project**

Team Members

Mohul Mathew George 301314726

Jami Prasad P 301319545

Arjun Puthen Veedu Manikandan 301280383

Siva Kalyani Mutyala 301341665

Nabila Patel 301312528

School of Engineering Technology and Applied Science, Centennial College

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Mark Thomas

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**AI Robot using NVIDIA Jetson Nano**

NVIDIA Jetson Nano

Camera

Object detection

Microphone

Voice recognition

GPT-3

Artificial Intelligence

Loud speaker

Sound output

SIM card

Internet connectivity

Battery

Independent operation

The basic idea of our project is to use NVIDIA Jetson Nano development board with its Artificial Intelligence (AI) capabilities to develop a robot that acts as an assistant to answer all the questions that you ask. The Jetson Nano is wired to a loudspeaker for sound output and microphone for voice recognition. There is a Raspberry Pi camera connected to the board for object detection. GPT-3 framework is used to process the requests and come back with answers. The return data is fed to a test to speech software such as Amazon Polly to synthesize natural-sounding human speech and then output through the speaker.