

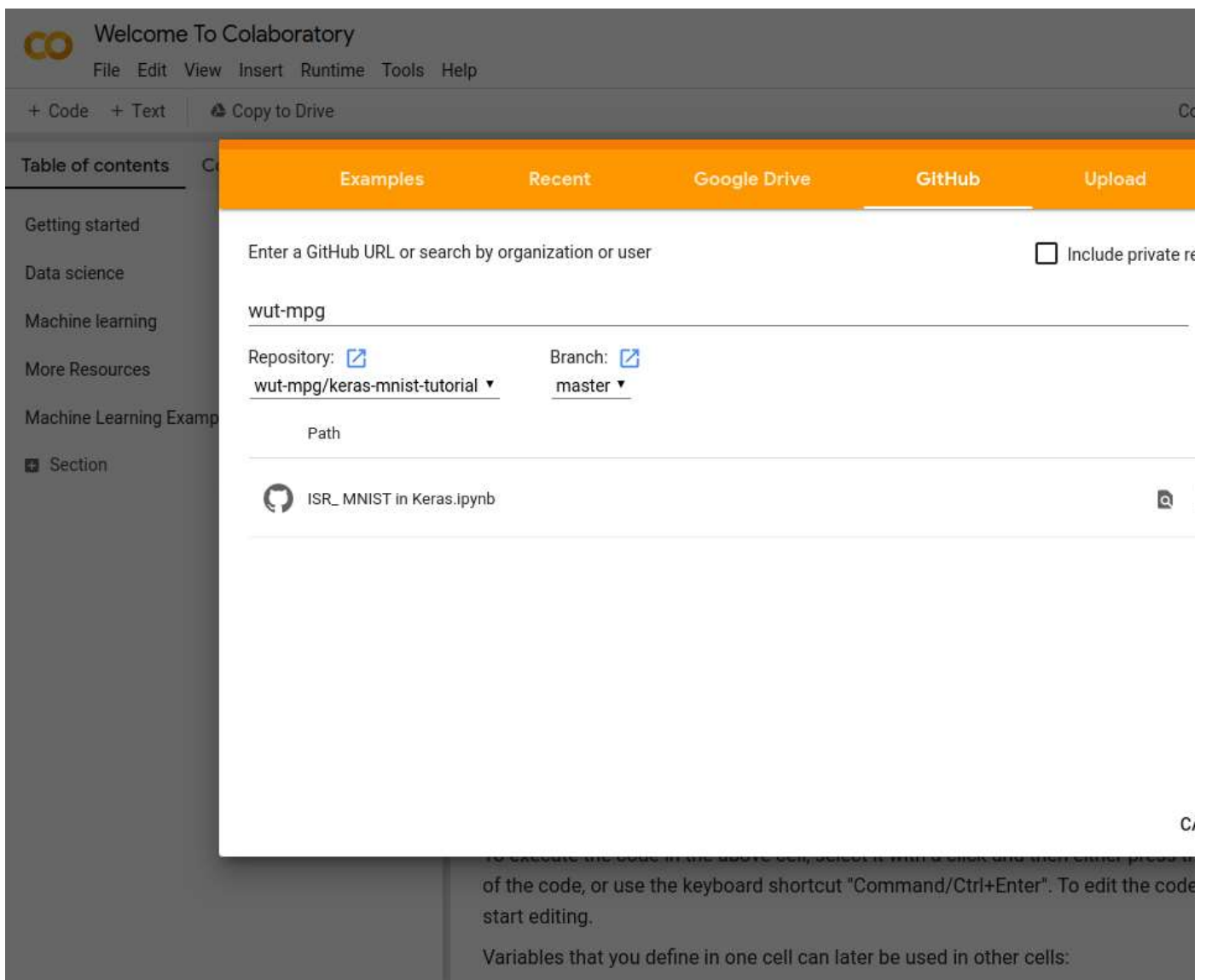
# 1130-EMARO-MSA-1006# Computer Vision

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## T7: Conv nets

This task will be done on [Google Colab](#) platform.

Go to the [Colab](#) page and load prepared notebook from the **wut-mpg/keras-mnist-tutorial** repository:



The screenshot shows the Google Colaboratory interface. The top bar includes the 'Welcome To Colaboratory' message and a menu with 'File', 'Edit', 'View', 'Insert', 'Runtime', 'Tools', and 'Help'. Below the menu, there are buttons for '+ Code', '+ Text', and 'Copy to Drive'. The left sidebar contains a 'Table of contents' with links to 'Getting started', 'Data science', 'Machine learning', 'More Resources', and 'Machine Learning Examples'. The main area displays the 'GitHub' tab, which has a search bar for 'Enter a GitHub URL or search by organization or user'. Below the search bar, the repository 'wut-mpg' is selected, and the branch 'master' is chosen. A list of repositories is shown, with 'ISR\_ MNIST in Keras.ipynb' selected. The bottom of the interface shows a message about executing code and a note about variables.

After loading the notebook make sure, that you have GPU acceleration enabled in the **Edit** > **Notebook settings**:



```
%tensorflow_version 1.x
```

## Introduction to Deep Learning with Keras and TensorFlow

Based on excellent work by [Daniel Moser \(U](#)

[ash Katariya](#)

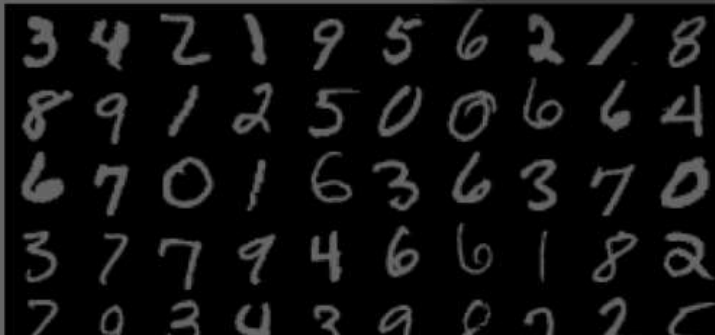
To help you understand the fundamentals of  
classifying handwritten numbers with accuracy  
second model will be a deeper network that

ding two toy mode  
ted neural network,

## The Task for the AI

Our goal is to construct and train an artificial  
others when presented. The data that will be  
images. We will use the Keras Python API w

that it may succe  
es for training and



### Notebook settings

Runtime type

Tensorflow (GPU)

Hardware accelerator

GPU



☐ Omit code cell output when saving this notebook

CANCEL

SAVE

To be able to save the changes you made you have to copy the notebook to your Google Drive.

To familiarize yourself with the Colab platform you can also follow the [introduction](#) provided by the Google.