**Matt Morrow**

**CIS5898**

**First Progress Report**

**09/14 –** The project proposal has been submitted.

**09/15** - The initial steps have been taken in the development of a SeedID. The program now connects to an Azure Blob Storage, uploads images, and processes them using PyTorch; with CUDA support for GPU acceleration.

CUDA 12.4: This version of CUDA leverages NVIDIA GPUs for high-performance computing. This will speed up deep learning tasks that involve processing large datasets or performing neural network computations.

PyTorch: Installed as the primary deep learning library. PyTorch provides seamless integration with CUDA, enabling the use of GPUs for faster image processing and model training.

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**09/16 -** Azure blob storage has been partitioned. The container "seedimages" was created within the Azure Blob Storage account "fitseedid" to store the images. The Azure Blob service client was set up using the connection string to communicate with the container.

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**09/18 -** The Program can now communicate with the Azure database and add an image from a local file path.

A screenshot of a computer program

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The core function at this point in development is:

*def upload\_image(self, local\_file\_path):*

*upload\_image\_to\_azure(self.connection\_string, self.container\_name, local\_file\_path)*

Which passes the connection string, container name, and file path to a separate class that uses a built in function, *blob\_service\_client.get\_container\_client()*, to send the blob to the container.