

### **MTE 438**

# **AI in Mechatronics and Robotics**

Spring 2024

**Individual Project: Fruits Classification** 

# **Submitted by**

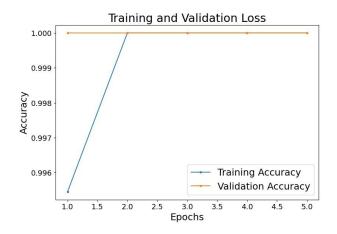
Yomna Mohamed Omar 120200175

To

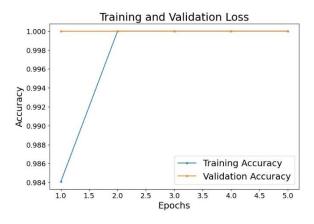
Dr. Haitham El-Hussieny

All models showed a success rate and accuracy of 100% and zero losses when used with unseen test data after the training process. However, during operation with the webcam the model utilizing transfer learning showed the highest performance out of the three models.

### **Transfer Learning Model (ResNet50):**



#### **CNN Model:**



# **ANN Model:**

