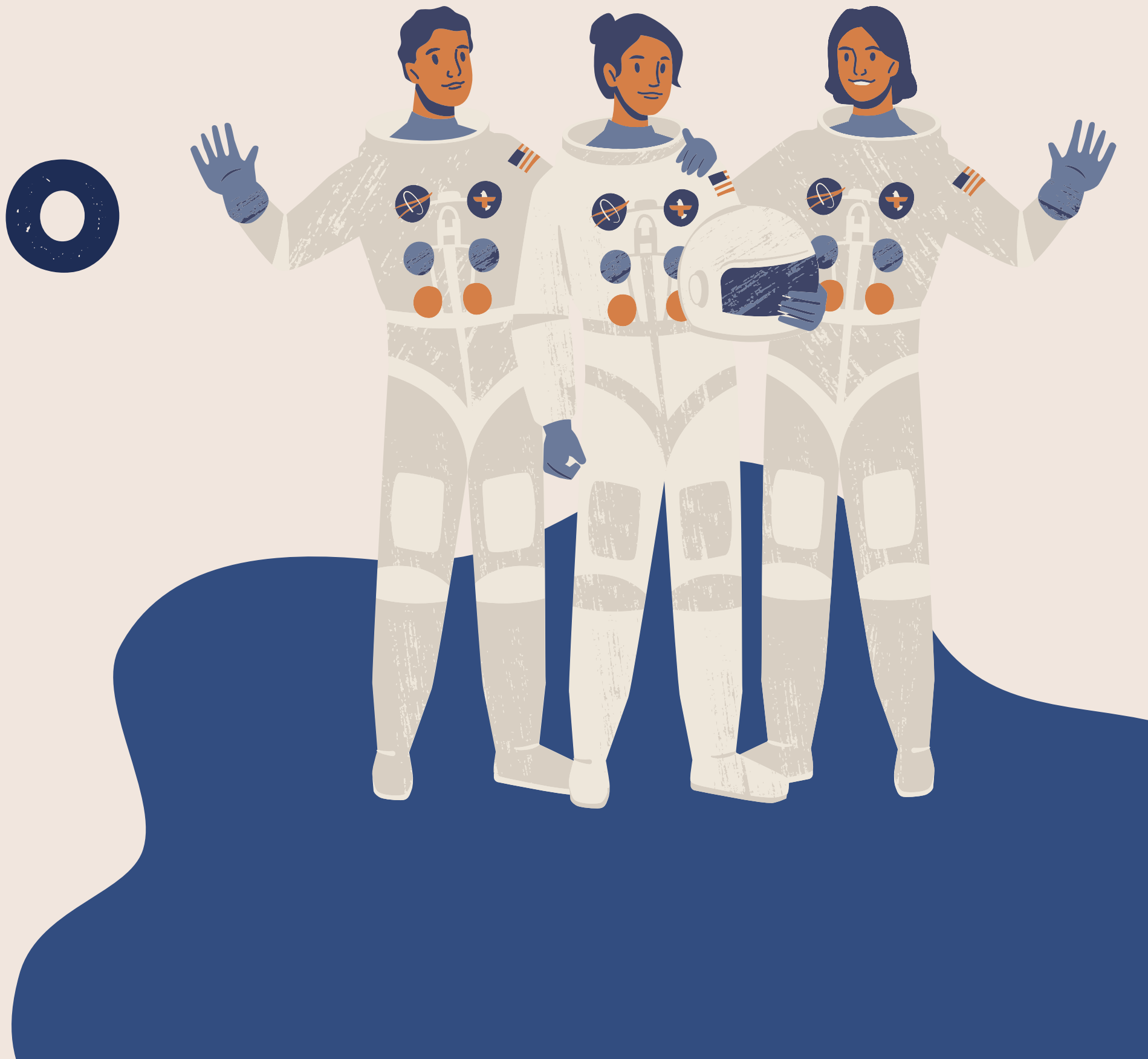


AL-SADEEM

BIOMONASTRO

BY :

- **ATHEER ALSHEHRI**
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- **RAWAN ALALYANY**
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THE CHALLENGE

HEALTH MONITORING

including :

- sensor accuracy
- communication delays
- automatic prediction

PROPOSED SOLUTIONS

WEARABLE BIOMETRIC SENSORS

With new features:

- Real-Time data transmission
- Automatic health recommendations

THE TARGET

PREVENTIVE CARE

- Track astronauts ' health immediately
- preventing serious medical issues



ROADMAP

Months 1-6

Sensor
development

Phase 1

Phase 2

Months 7-12

Real-time
data transmission

Timeline

Months 13-18

AI-driven
predictive models

Phase 3

Phase 4

Months 19-24

Testing and
validation

USER EXPERIENCE

Real-Time health monitoring and data transmission

AI-Driven insights and self-recommendations

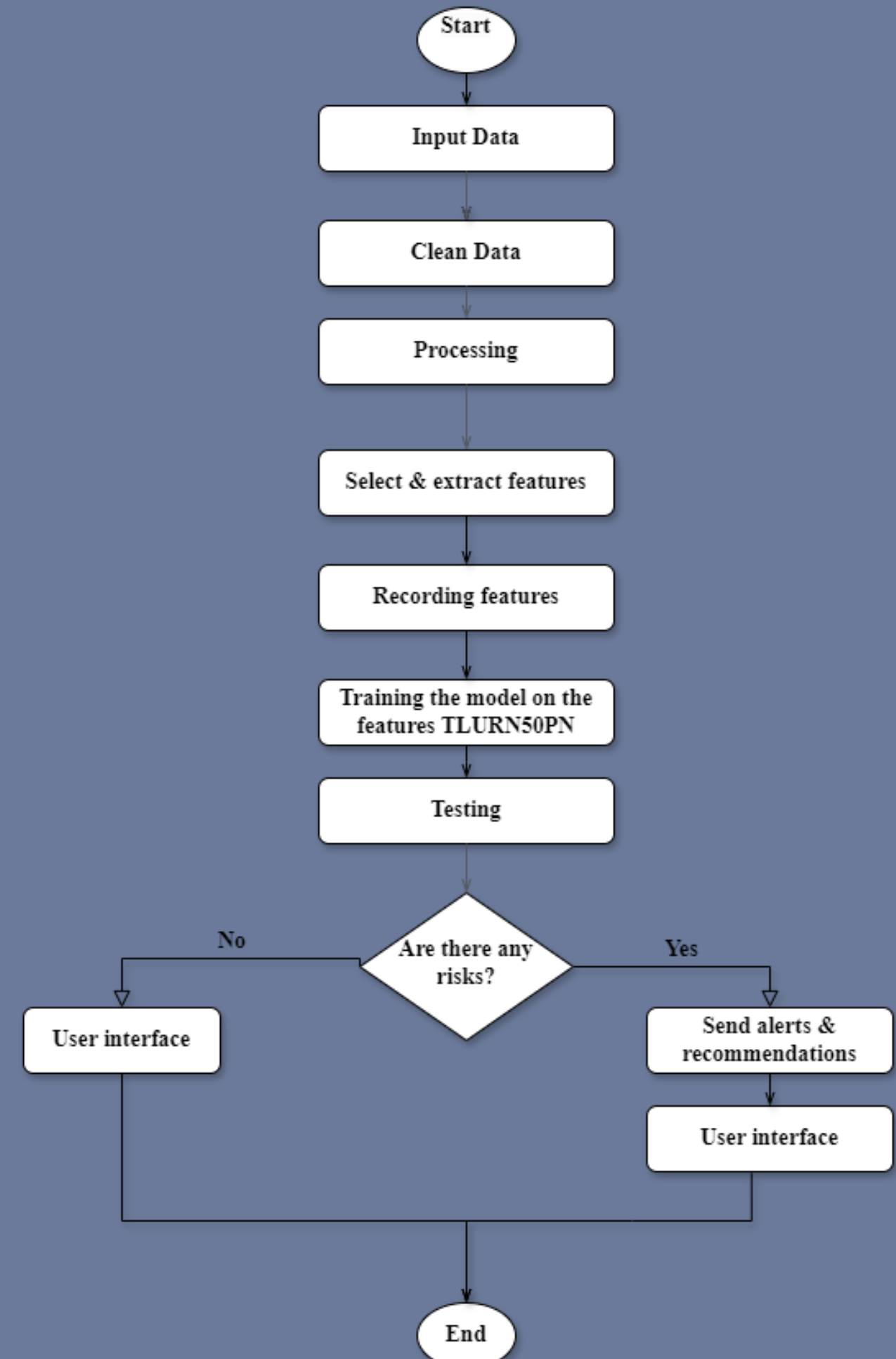
User-Friendly interface

Integration with activities

Emergency protocols

Comfort & Usability

bio-sensor based AI algorithm diagram

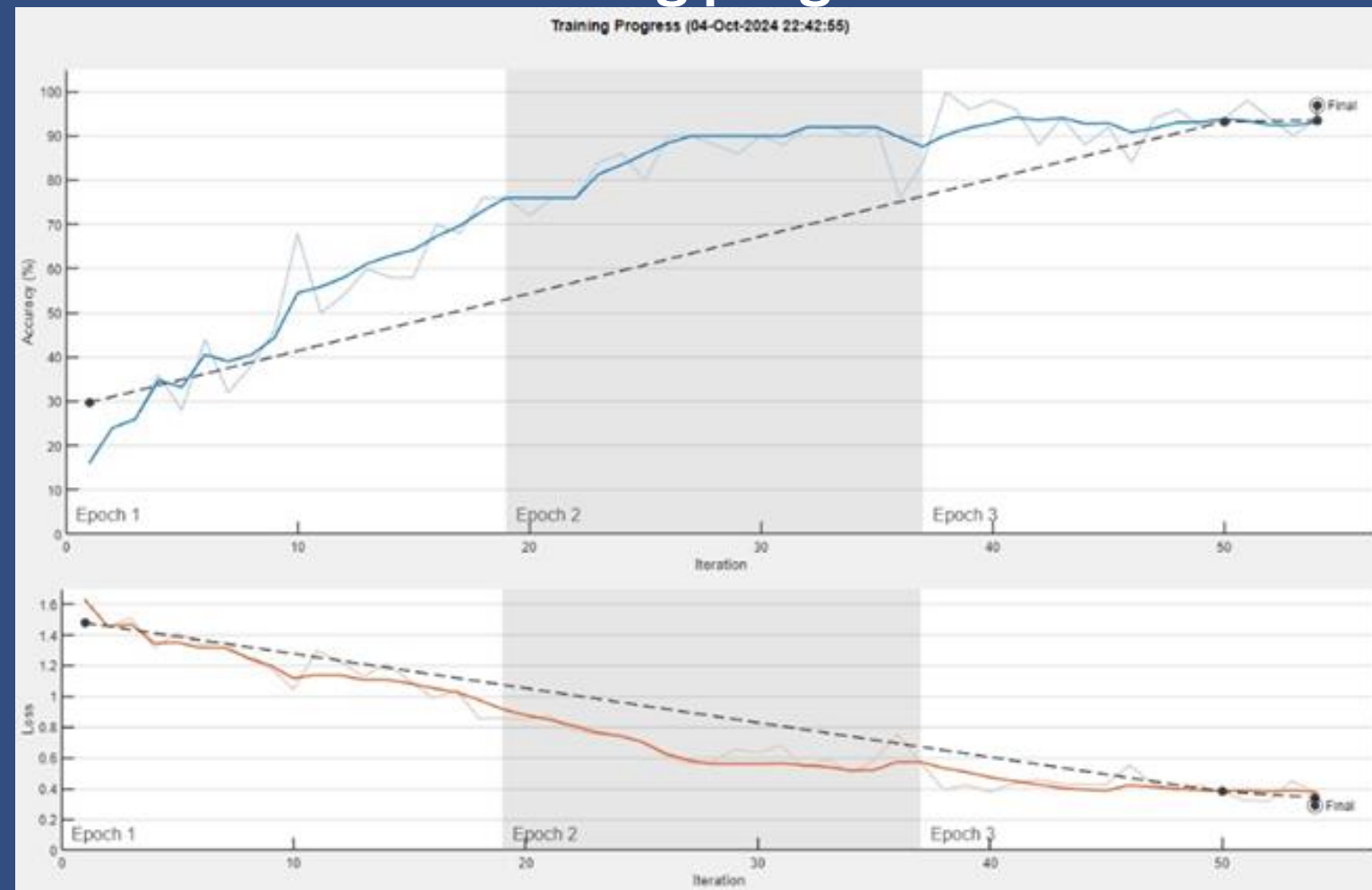


BIOMONASTRO PROTOTYPE

Medical condition classification

```
Editor - C:\Users\MMAAM\Desktop\ECG Deeplearning Classification\TransferLearningUsingPretrainedNetworkResnet50.m *
+8 TransferLearningUsingPretrainedNetworkResnet50.m x TestTransferLearningUsingTrainedResnet50vsSVM.m x augment.m
1 %% Transfer Learning Using Pretrained ResNet50 Network
2
3 %% Load Data
4
5 digitDatasetPath = fullfile(pwd,'Dataset\ECG_Images_Cropped\Train');
6 imdsTrain = imageDatastore(digitDatasetPath, ...
7     'IncludeSubfolders',true, ...
8     'LabelSource','foldernames');
```

Training progress



Results

Validation accuracy:	97.50%
Training finished:	Max epochs completed
Training Time	
Start time:	04-Oct-2024 21:32:18
Elapsed time:	25 sec

VALUE PROPOSITION

Key Value: Space Travel without concern

- Mitigate risks.
- Enhance the safety.
- Ensure mission success.

NEXT STEP

- Go to reality life and Continue our project development
- Conduct in-depth research and publish.
- Find partnerships locally or globally.

This thought is just a new beginning, paving the way for endless possibilities and groundbreaking discoveries.

• *Al-Sadeem*



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THANK YOU VERY MUCH!