ActivPal Week 14

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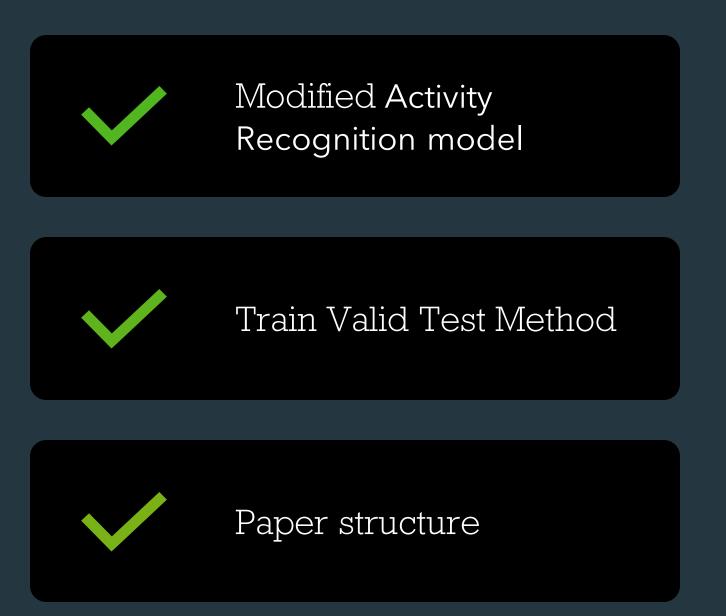
WHAT HAVE WE DONE PREVIOUS WEEK?

WHAT ARE OUR GOALS FOR THE NEW SPRINT?

What have we done in the previous week?

- ✓ Modified Activity Recognition model

- ✓ Train Valid Test Method

- ✓ Paper structure

Activity recognition

ACTIVITIES RECOGNIZED

- Walking
- Running
- Cycling light
- Cycling heavy
- Standing
- Sitting

Dataset	Accuracy	F1	Precision	Recall
Validation	96%	96%	96%	96%
Test	85%	85%	85%	85%

	Accuracy	Precision	Recall
K-fold 5 cross-validation	81% +/- 5%	81% +/- 5%	82% +/- 4%

Train Valid Test Method

WE TOOK 3 DIFFERENT APPROACHES

- A. 22 respondents for train/valid, 3 respondents for test > split 22 respondents randomly

- B. 25 respondents > 18 training, 4 validation, 3 testing

- C. Every respondent is added to training(60%), validation(20%) and testing(20%)

- Final decision:
  - Method A, after discussing the 3 approaches with CBS

Paper structure

Paper chapters
Abstract
Introduction
Subject field
Methods
Subjects
Study design
Met regression models
Activity classification
Results
Met regression
Activity classification
Discussion
Conclusion
References

What are our goals for the new sprint?

01

Paper