


# Classifying EEG data to detect and forecast mistakes

Prevent chaotic mistakes before they happen



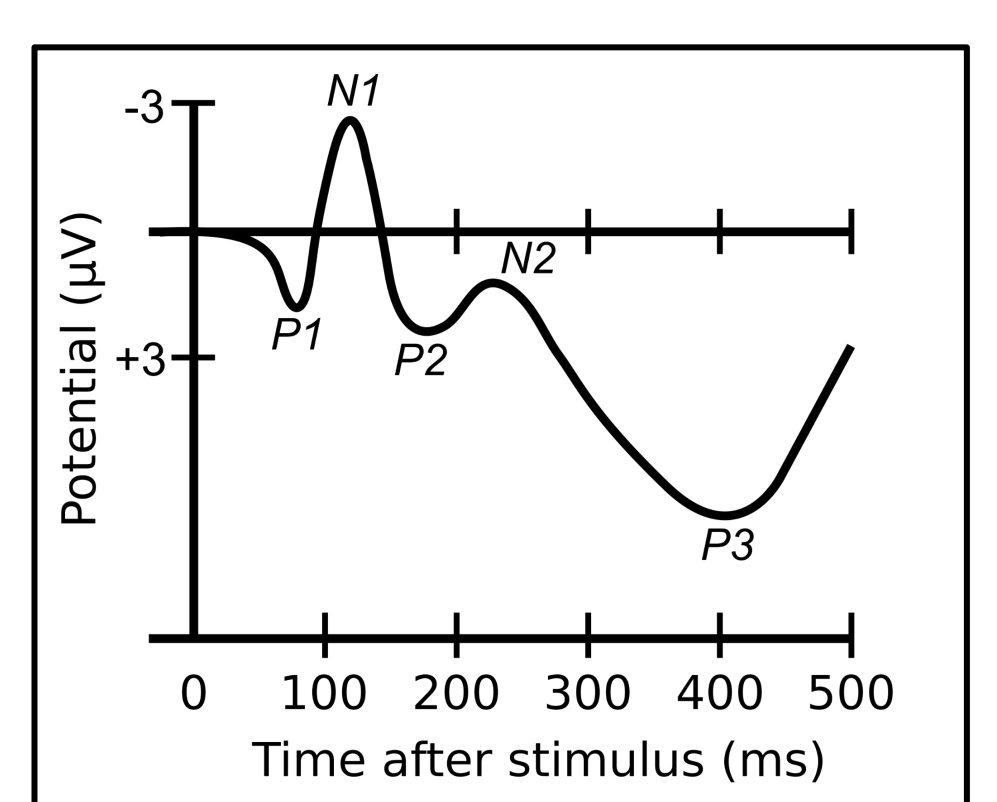
Miguel Jover

mjover@uncc.edu

linkedin.com/in/miguel-jover/

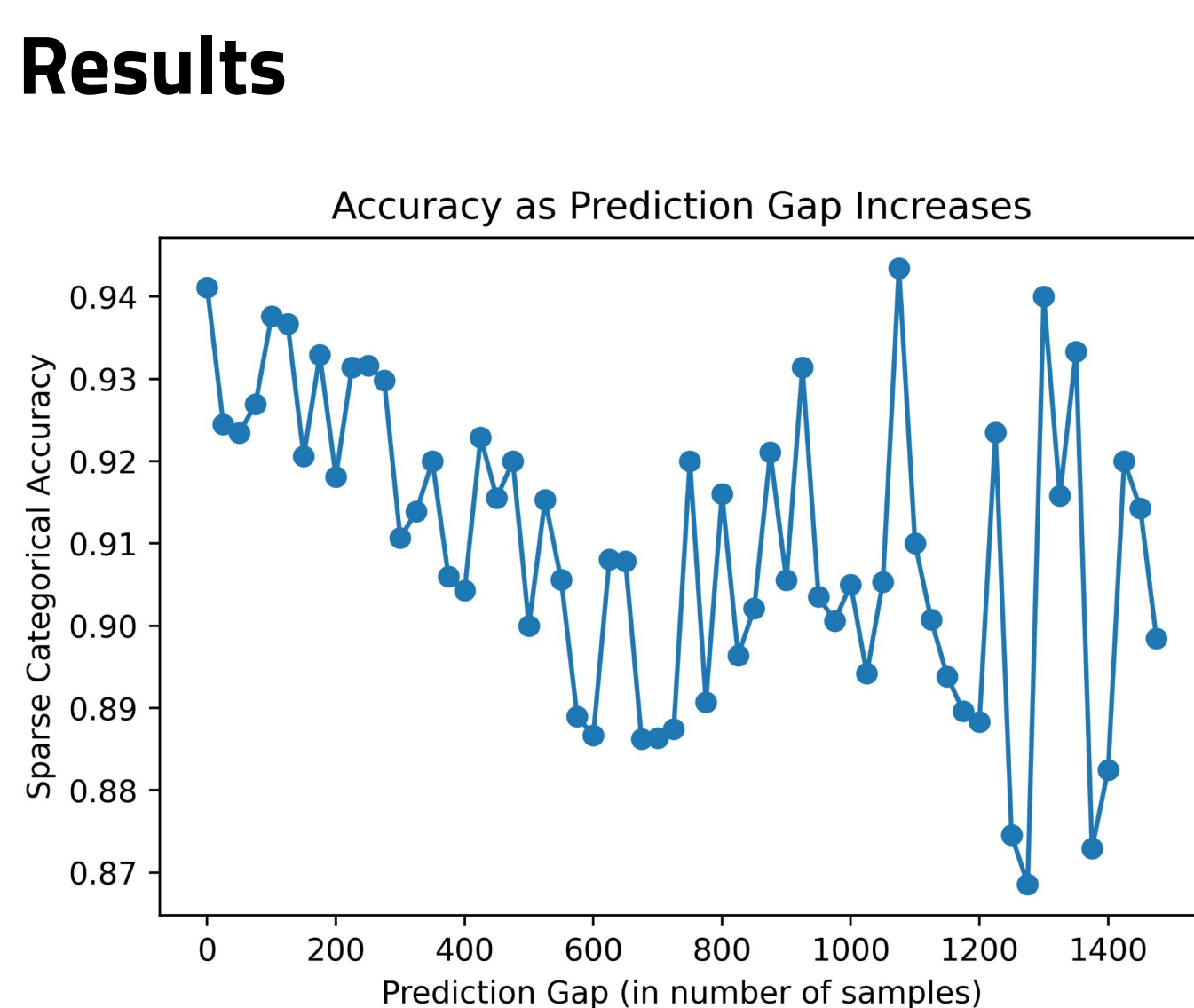
github.com/mianjoto/

- Introduction**
- Making mistakes emits a brain signal pattern (ErrP)
  - Computers can recognize this pattern



Error signal (ErrP)

- Method**
- Neural network learns to detect the mistake pattern
  - Train the neural network to predict mistakes

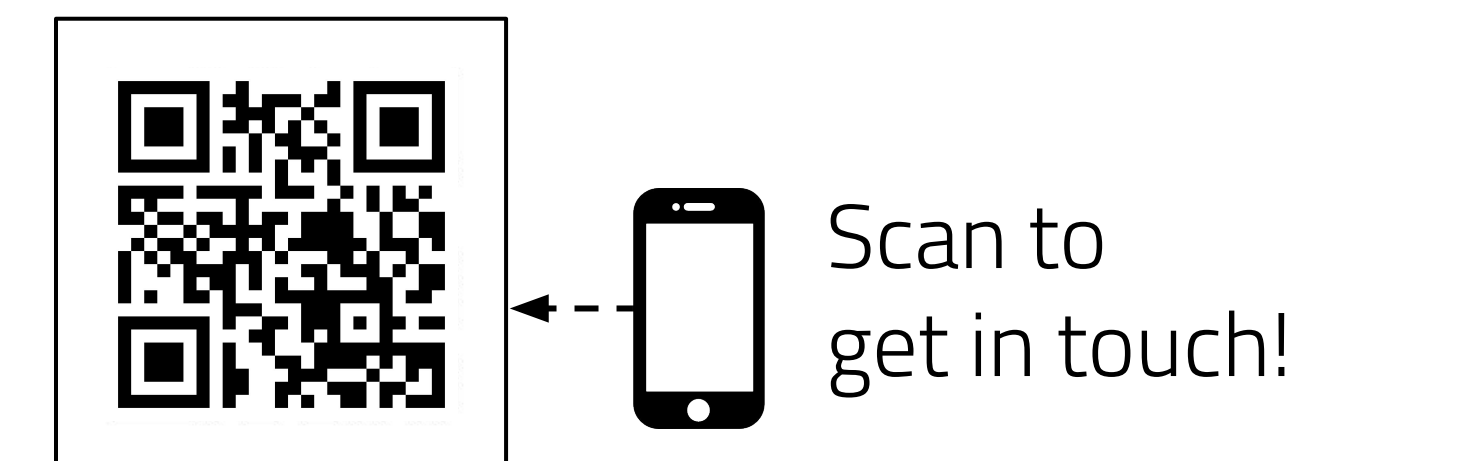
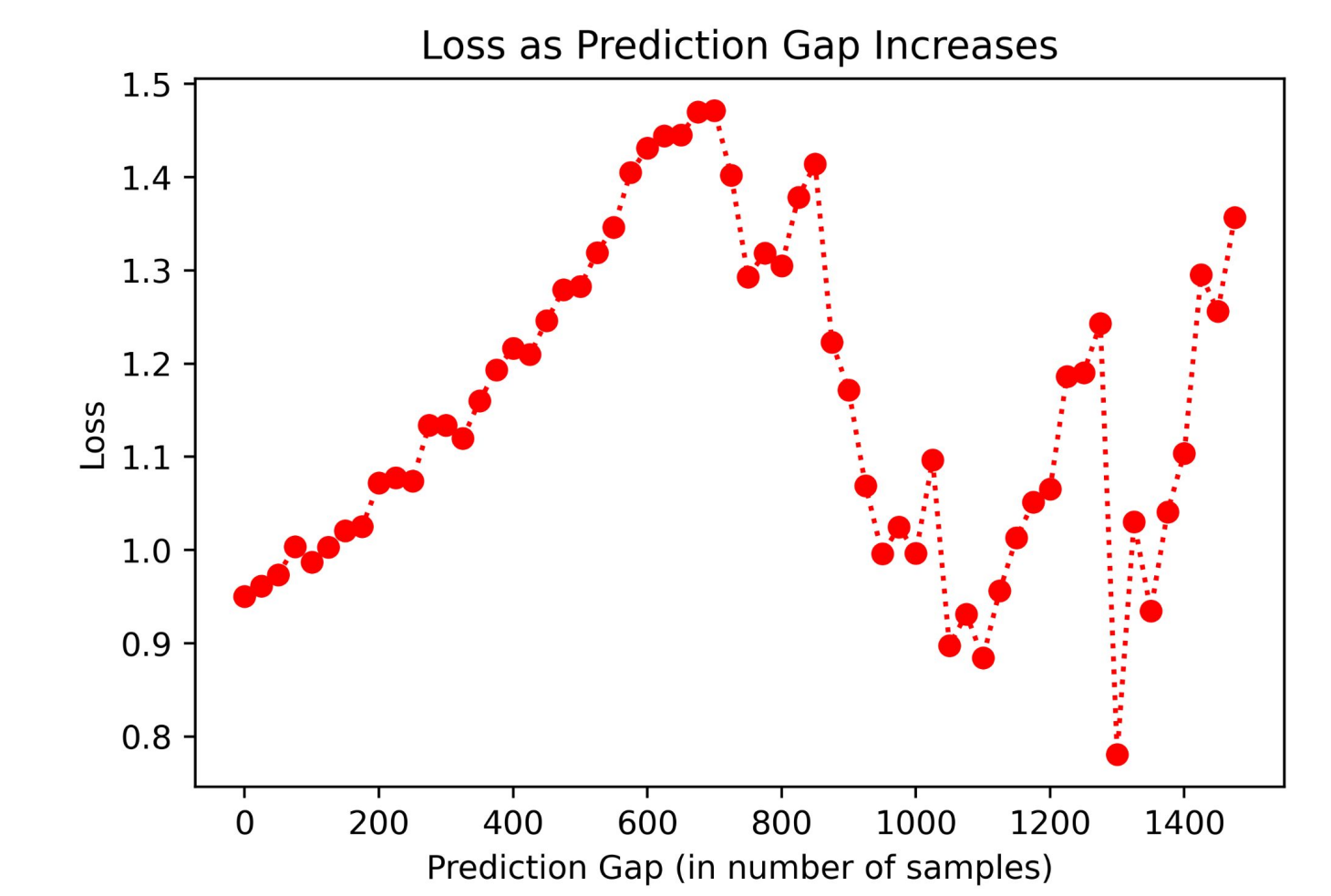
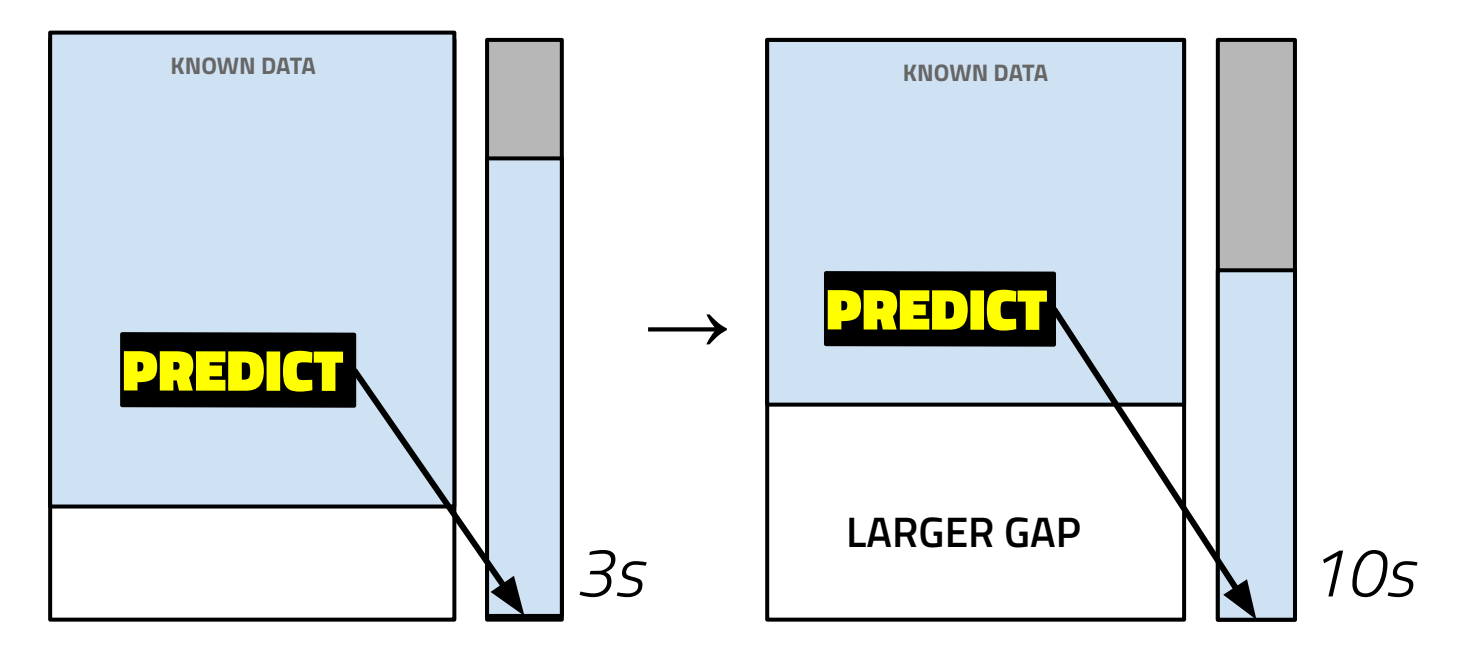
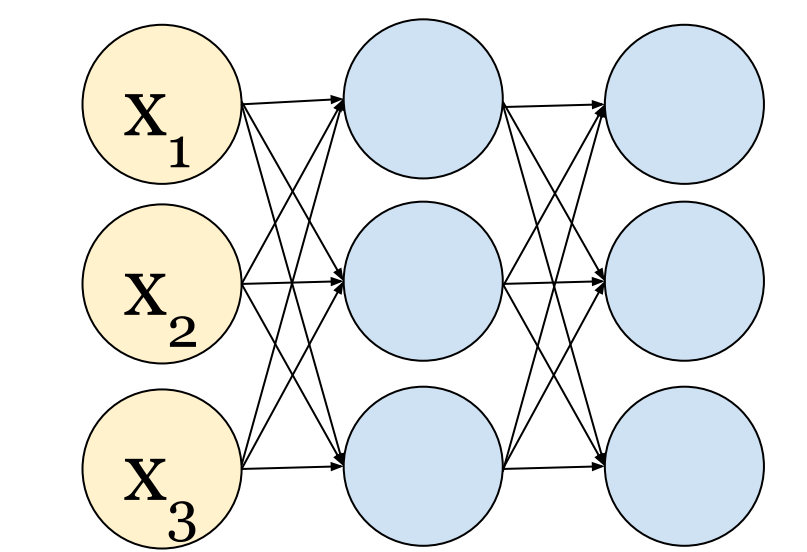
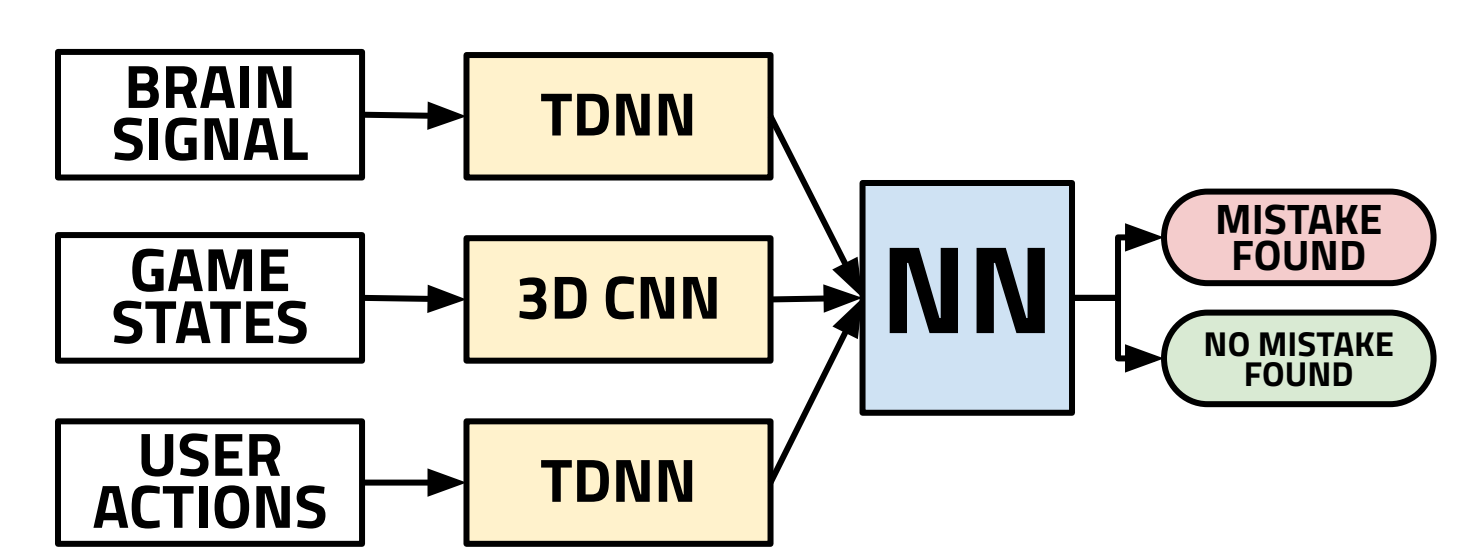
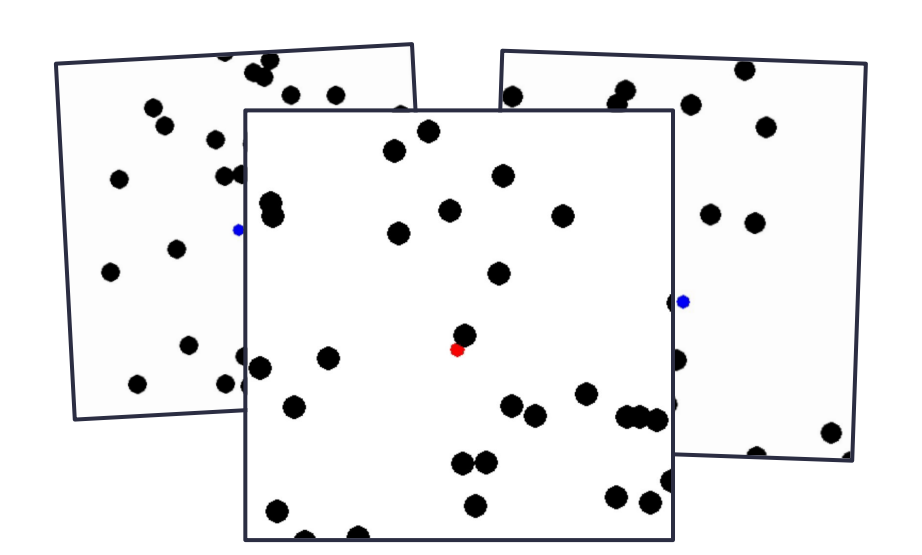
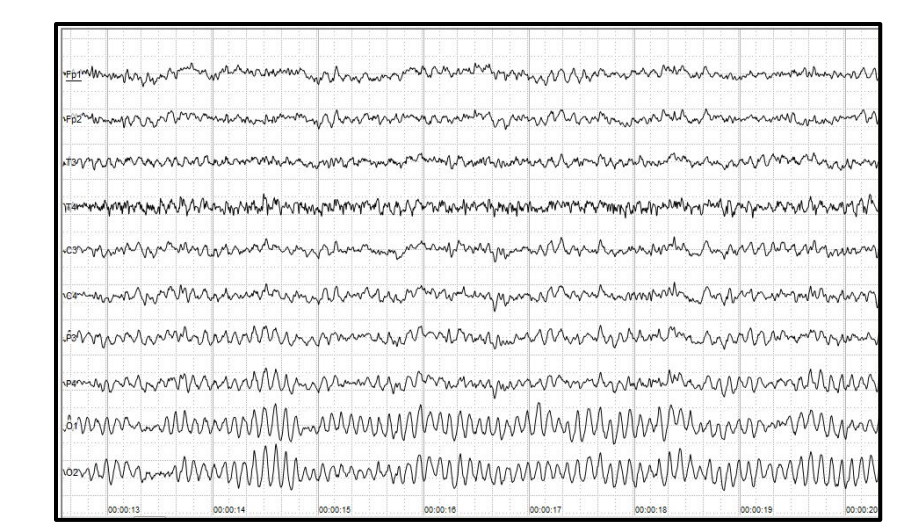
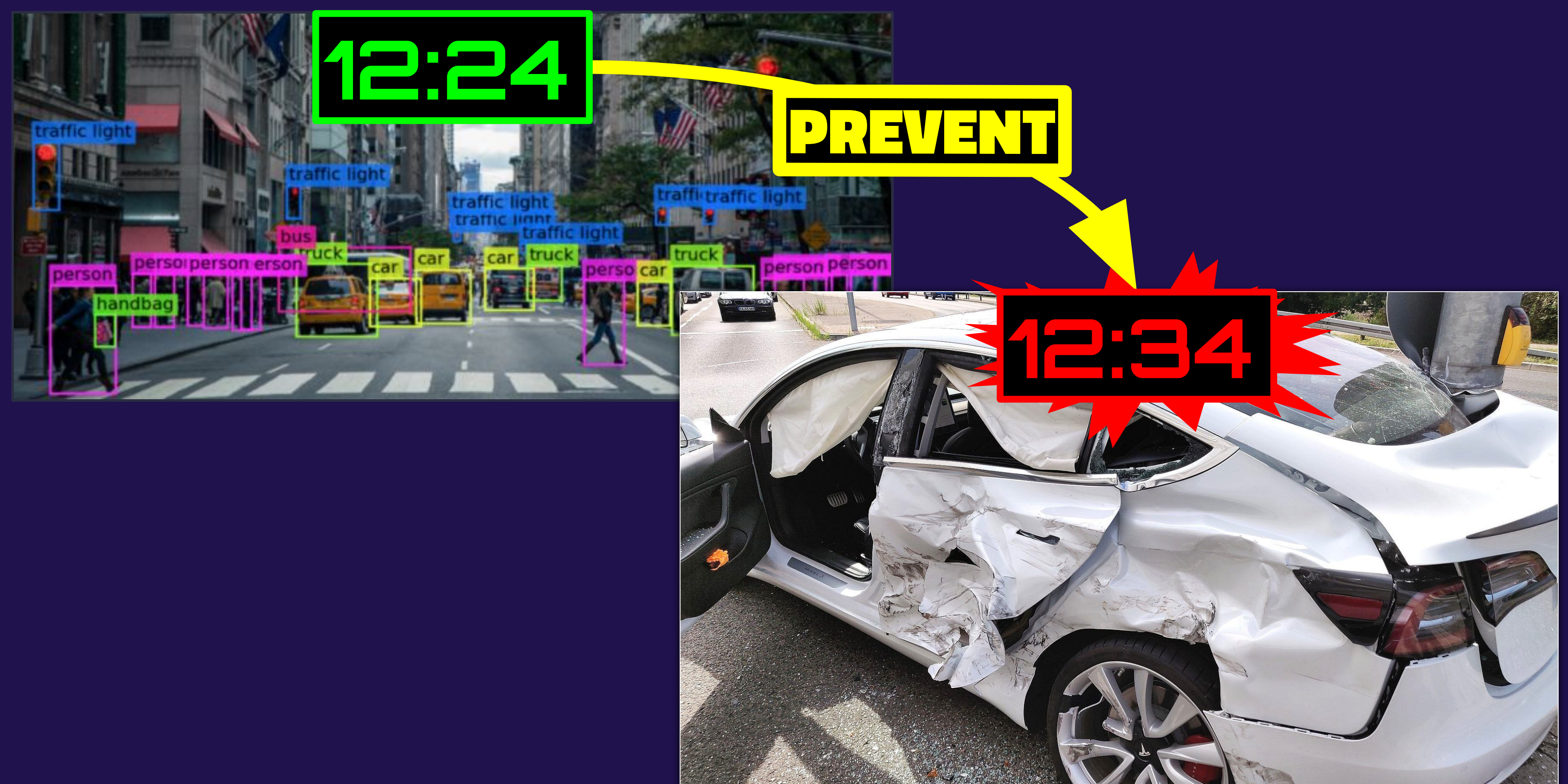


- Accuracy remained above 90% for up to 1 minute of predicting

- Discussion**
- Mistake prediction is possible!*
- Implications in BCI, self-driving cars, and AI safety
  - Future goal: predict up to 5 minutes in the future



It is possible to predict human mistakes before they happen using machine learning.



**AUTHORS**  
Miguel Jover, Dr. Jake Lee, Ben Poole



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