Drowsiness Detector

Sleeping on the job?

**Problem**
- For **satellite launches**, it is critical that employees are focused when monitoring data
- **70%** of tech employees sleep on the job

**Solution**
- **Drowsiness Detector** is:
  - A **desktop program** that uses facial recognition to alert drowsy employees
  - An **Android app** that enables managers to view workers’ profiles

**Architecture**
- OpenCV used for real-time facial recognition
- Manager uses app to monitor drowsy employees

**Technologies Employed**
- Firebase
- Python
- GitHub
- Android Studio
- OpenCV

**Manager can view each employee’s drowsiness profile on the mobile app.**

**Log in or register a new account. Run facial calibration to assign detection thresholds.**

**Program will alert if the user shows signs of drowsiness:**
- Eyes closed
- Yawning

**Recent alert:**
- Drowsiness Detected (YAWN): 2B
- Drowsiness Detected (YAWN): 1B

**Team Lead - Danielle Robinson**
- Victoria Sneddon
- Brandon Tran
- Andrew Polk
- David Sun

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