

### Pitch Tipping

- Pitchers required to come to 'set' position before a pitch
- Sometimes set up slightly differently for different pitch types

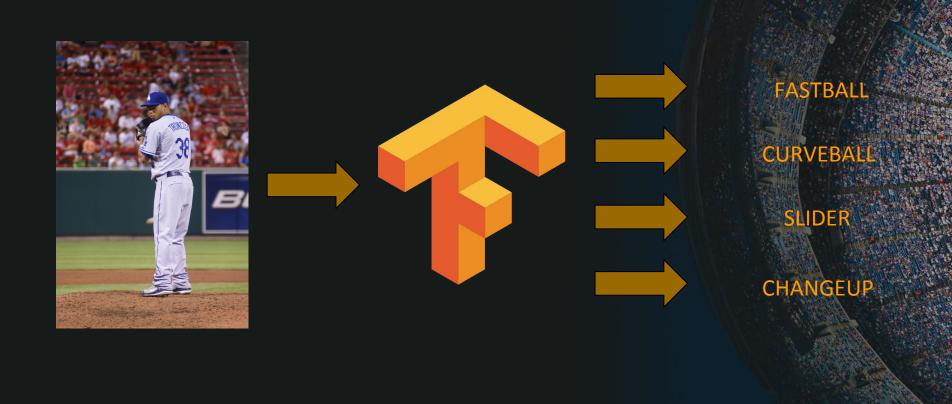
**FASTBALL** 



**CURVEBALL** 

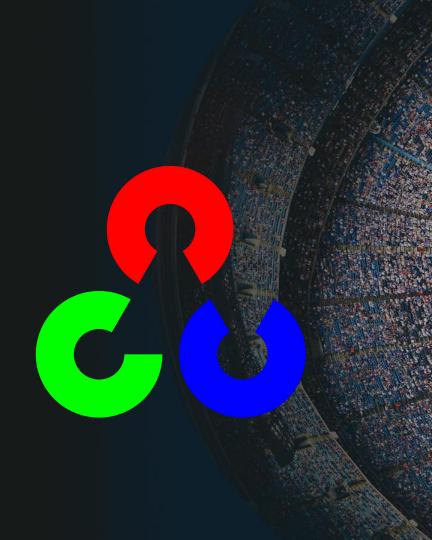


# Goal



#### **Data Collection**



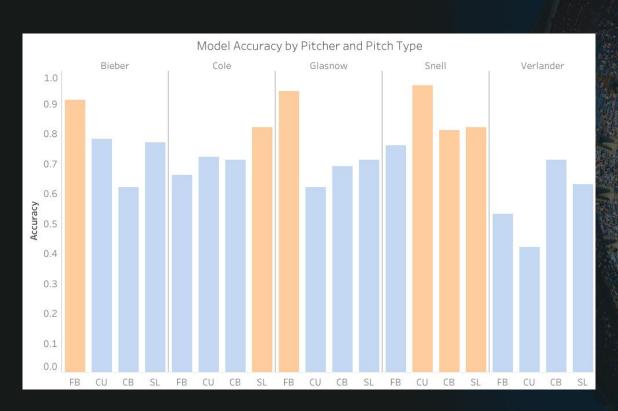


#### Modeling

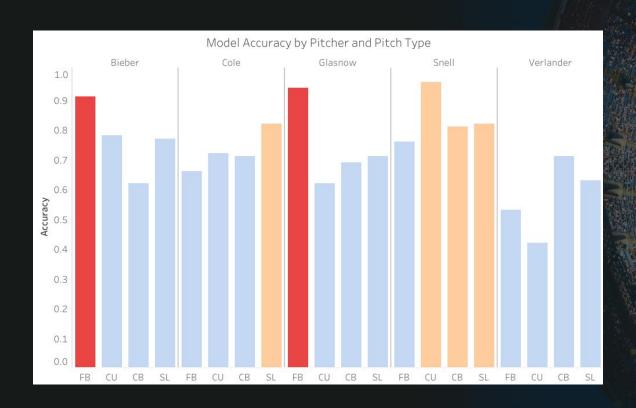
- Transfer learning with VGG16
- Image augmentation
- Five pitchers with large samples and interesting repertoires
- Trained different binary model for each pitcher-pitch type



# Most pitchers tip pitches...



#### ...but can humans see it?





## **Scouting Use Case**

**FASTBALL** 



**NON-FASTBALL** 



# Thank you!

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