Tushar Kulkarni Machine Learning Engineer Intern Master of Science Student at UC Irvine

Mentors Sergei Azernikov, Andrey Gubenko, Chih-Chun Lin



# Interesting facts about me? Well...

75% - 80% introvert

Designing

Sketching, Drawing, Painting

Photography

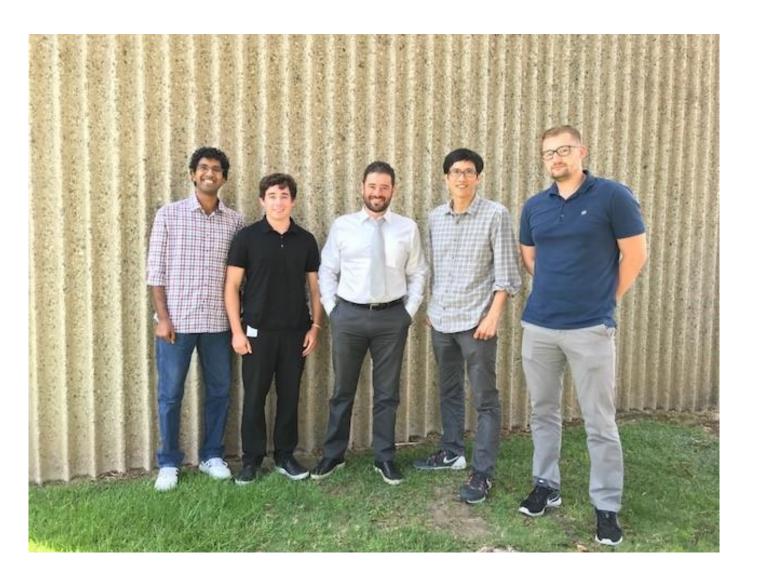
Travelling, Hiking

Books

Computer Science



# My Team – Machine Learning



Credits: Gavin Goddard

The things I can't explain right now...

Due to time limitation

...Let's call them MAGIC !!!

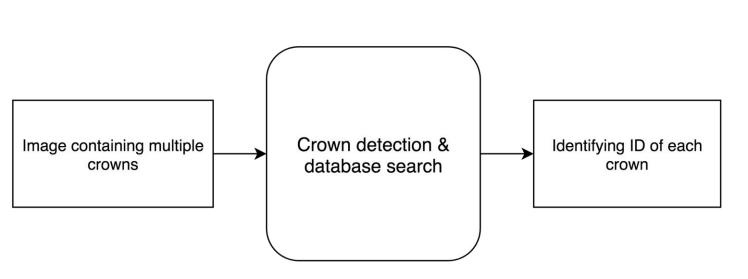
## Why do we need this system?

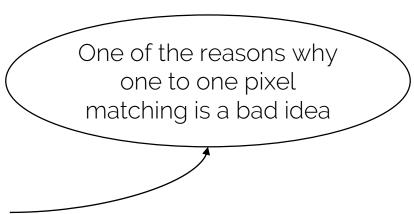
- Fast identification of unknown crowns
- No dependency over other external identification methods e.g. Barcode, Text Labels

## Why Machine Learning and Computer Vision?

- Removes redundant information

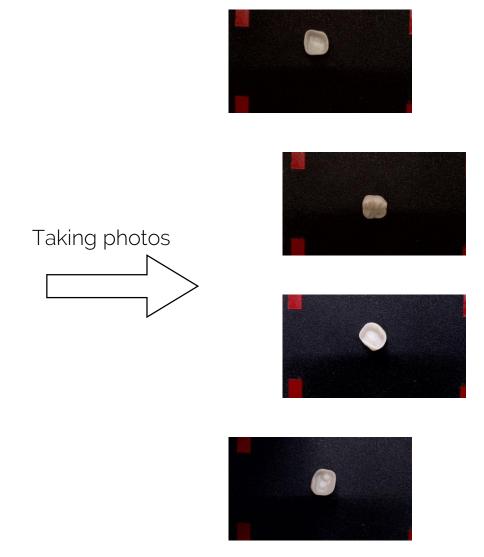
   e.g. color, contrast, perspective, lighting (to certain extent)
- Recognizes patterns in crown rather than actual crown (features)





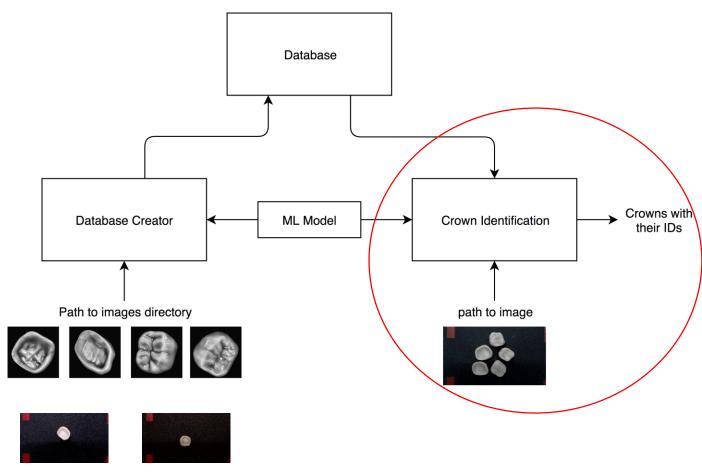


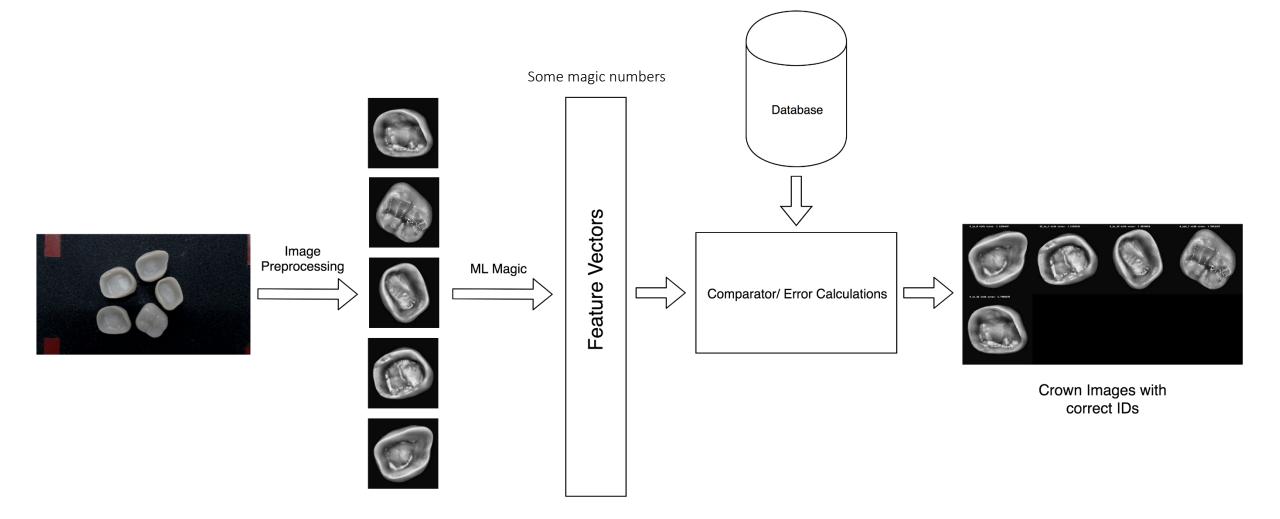
Project of Andrey Gubenko



# Block Diagram

A lot of magic happens here...





Let's generate some graphs...

#### What I learned?

Teamwork and individual contribution

Real application of my knowledge as practical applications are filled with random variables that make theories so much unstable

Experience of designing a system from data collection to the deployment ready system

Thank you