Feature Extraction Using Satellite Imagery

Fuzail Palnak, Prakhar Verma, Ravi Panchani
“Predicting future isn’t magic, it’s Artificial Intelligence”

- David Walters
Intelligent Map Making
Feature Extraction

- Image Processing
- Semi Automatic Supervised Classification
- Machine Learning?
- Convolutional Neural Network
- Exploring Capsule & Adversarial Networks
Extracted Features

Water Body

Road

Runway
Case Study - Water

- Scope: Area - 1 million square meters
- Traditional map making technique
- Semi automatic supervised classification
- Machine Learning

![Graph showing comparison of water areas extraction methods]

- Traditional: 630 hours
- Semi automatic: 320 hours
- Machine Learning: 43 hours
What’s Next?

Automated

Cloud Based

Machine Learning Pipeline Framework
THANK YOU