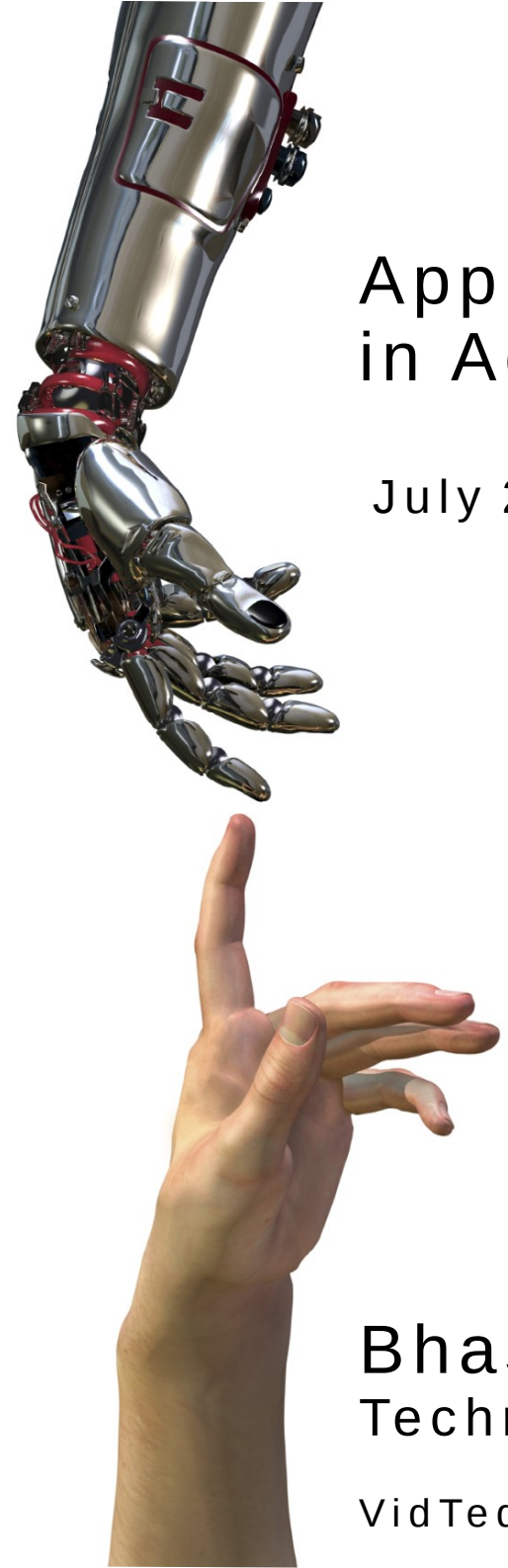


Applications of Machine Learning in Advance Map Creation

July 2017

Bhaskar Mangal
Technical Architect

VidTeq (MMI)

Philosophy

Robots

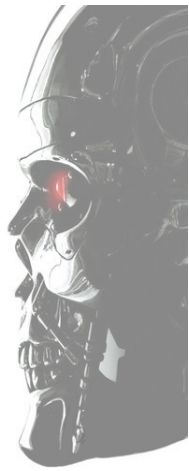
Artificial Neural Networks

Machines

Artificial Intelligence

Machine Learning

Full Automation



With

~~Vs~~

Empower

Human

Augment

Increase Productivity

Facilitates

Efficiancy

Semi Automation

Applications of ML

Categorization

1. Text from the photographs
2. Image Categorization/Classification
3. Structure Segmentation and Re-construction
4. CBIR (Content Based Image Retrival)

Specific Use Cases

- Number Plate Masking (ALPR)
- Face obfuscation
- POI – auto-fill (OCR)
- POI – categorization
- Road Edges, Lane Re-construction
- Traffic Sign Detection and Extraction
- Image based search

Plan

- ML, Deep Learning Readiness
  - 15th Apr’17 till 15th Jul’17
  - Hands on ML and CNN in computer vision, technology survey, feasibility, use cases identification, production workflow planning
  - Refer Readme.html for updates
- Use Case Implementations
  - 15th Jul’17 till 15th Sep’17

  1) Number Plate Masking
  2) Number Plate based Image retrival

  - Standalone and Integrated workflow with Internal Tools
  - Architecture, Specifications, Workflow documentations