

AI Workshop with IBM Cloud and AI Platform

Toulon, December 2018

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Agenda - Day One

Introduction

IBM Cloud & AI Introduction

- And get your lab environment ready...

Computer Vision

What is Visual Recognition?

- Challenges and Use Cases

IBM Watson Visual Recognition

- Out-of-the-box tooling
- IBM Watson Studio
- **Hands-on-lab:** Using Visual Recognition defaults models with out-of-the-box tools (30min)

Building Custom Models

- Custom Classifiers considerations
- **Hands-on-lab:** Creating a custom classifier with out-of-the-box tools (45min)

API, Development Tools and Application Integration Considerations

- **Hands-on-lab:** Using Visual Recognition APIs with command line (30min)
- **Hands-on-lab:** Creating and Retrain Custom Classifiers with APIs (30min)
- Introduction to Node-RED
- **Hands-on-lab:** Integrate Visual Recognition in your application with Node-RED (1h)
- **Hands-on-lab:** Create a mobile Visual Recognition application using Cordova (Android or iOS) (45min)
- **Hands-on-lab:** Create an augmented reality mobile Visual Recognition application using CoreML (iOS) (45min)

Conclusion

- Additional Visual Recognition technologies and extended considerations
- Wrap-up

Presentation available @ <http://ibm.biz/WVRAdvance>

Lab instructions available @ <http://ibm.biz/WVRAdvanceLabs>

Agenda - Day Two

IBM Watson Natural Language Classifier

- Functional & Technical Overview
- **Hands-on-lab:** *Implement a Job Description Classifier*

IBM Natural Language Understanding

- Functional & API Overview
- **Hands-on-lab:** *pick and choose from the Code Patterns*

Discover Customer Sentiment for Product Review

- **Hands-on-lab:** *exploration of Watson Knowledge Studio and Watson Discovery*

Assignment – Group Work in Hackathon style

- Identify a use case – state the problem/challenge (*deliverable*)
 - Identify training data sources
 - Mockup application (*deliverable*)
- Draft an architecture (*deliverable*)
- **Implement**
- **Get in the Ring (Present 5 min pitch)**

All content available @ http://ibm.biz/ISEN_Workshop

Useful Links & Resources

External

Getting Started:

[Service Homepage](#)

[Feature Requests / Suggestions](#)

Case Studies:

[OmniEarth](#)

[Aerialtronics](#)

[BlueChasm](#)

[iTrend](#)

Tutorials & Best Practices:

[Training models with Watson Studio](#)

[Getting started with Watson + Core ML](#)

[Stacking Multiple Custom Models](#)

[Create a Calorie Counting App](#)

[Watson Visual Recognition & Twilio](#)

[Best Practices for Custom Models](#)

Code Patterns:

[Classify vehicle damage](#)

[Analyze industrial equipment for defects](#)

[Create an Android calorie-counter app](#)

External continued

Books:

[Redbook: Building Cognitive Application
using IBM Watson Services vol3 –
Watson Visual Recognition](#)

Blogs:

[IBM Watson on Medium](#)

Internal

Slack Channel: [#ibmvisual-recognition](#)

[Service Roadmap](#)

[IBMer key limit increase request form](#)

[ZACS portal](#)

[Digital Sales Play](#)

[Content Request & Feedback Form](#)