# Welcome to the Cognitive World

IBM

# Introduction to Watson

A system that can Listen, Understand and Talk back to you in 6 different languages.

A system that visually recognizes who you are

A system that wants you to talk in natural way.

A system that can start a conversation with you.

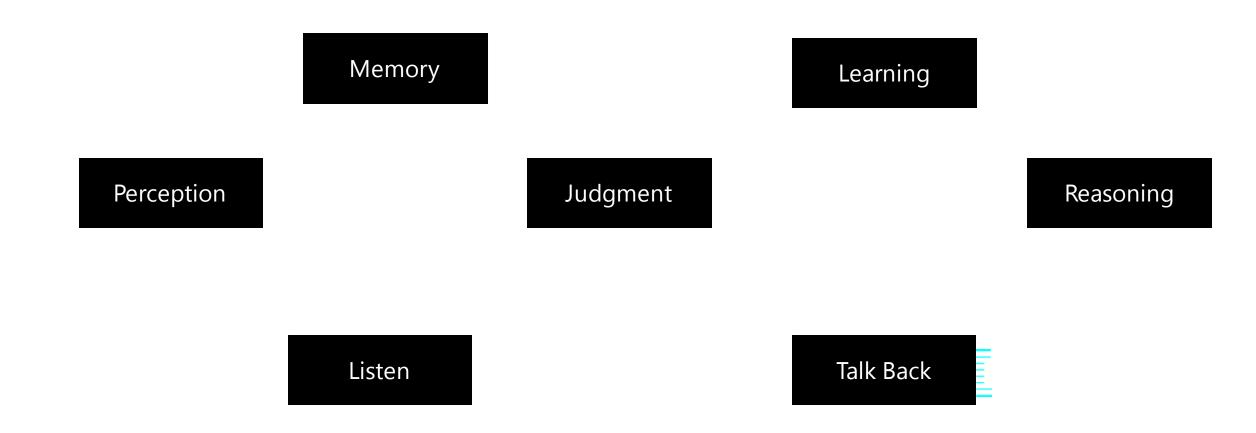
A system that can emotionally understand you

A system that can solve your dilemma's

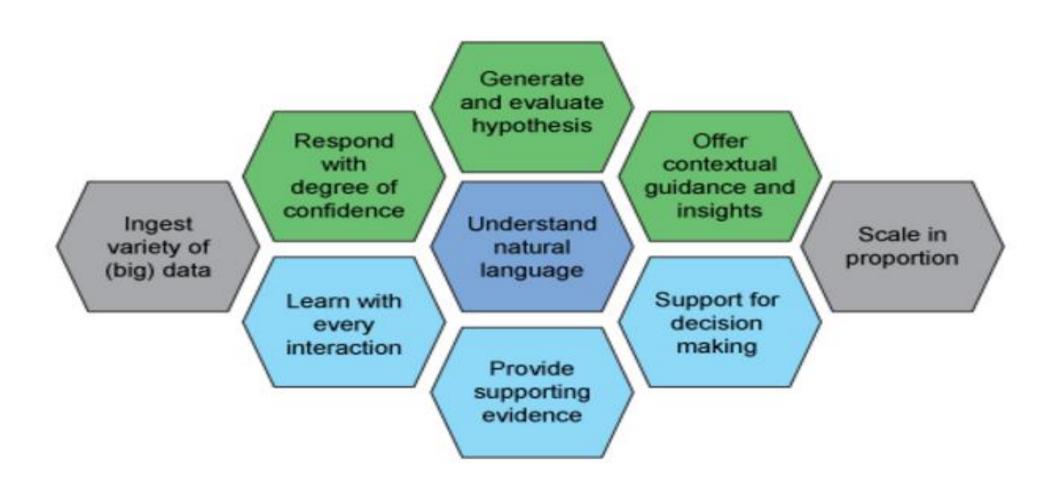
A system that can aid you in your learning journey



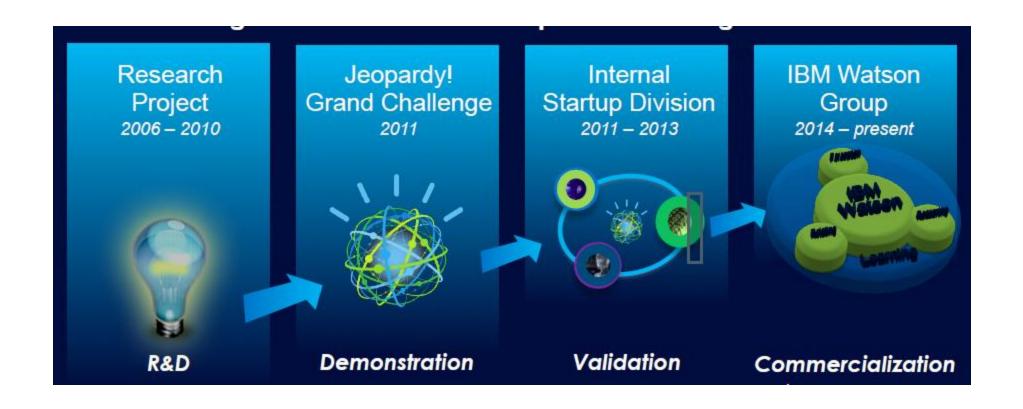
# Introduction to Cognitive Systems



# Characteristics of Cognitive Systems



# Lets Look into the Journey of Watson



# Lets talk about the services available

### Service categories under Watson

- 1. Watson Alchemy
- 2. Watson Pure :- Available and Trainable
- 3. Watson Alliance Cognitive Scale



# Watson – Alchemy Offering

# What is **AlchemyAPI**?

Pioneer of web services for real-time text and image analysis

- Founded in 2005
- 60,000+ developers
- Used in 36+ countries
- > 1.5 Billion calls a month
- Acquired by IBM Watson in 2015
- Democratizing artificial intelligence



# Watson – Alchemy Offering

# The most popular APIs

- AlchemyLanguage Text Mining
  - Named Entity Extraction
  - Sentiment Analysis
  - Keyword Extraction
- AlchemyVision Image Mining
  - Image Tagging
  - Face Recognition
- AlchemyData News Crawler
  - News



# How to USE Alchemy API

### 3 different ways

- 1. Directly via Rest APIs
- 2. Wrap it using language Specific SDKs
- 3. Node Red



# Sentiment Analysis

### What is sentiment?

Sentiment is the attitude, opinion or feeling toward something, such as a person, organization, product or location.

### What is the Sentiment Analysis API capable of doing?

The sentiment analysis API is capable of computing document-level sentiment, sentiment for user-specified targets, entity-level sentiment, and keyword-level sentiment.



# Live Coding using Node-Red

1. Introduction to Node-Red

2. Segregate tweets using alchemy sentiment and storing them in CloudantDB



# LAB 1 – Face Detection

Providing an Image and Identify who is within the image



# Live Use Case

- 1. Bob Dylan talks to Watson
- 2. MSK uses Watson for Oncology Research
- 3. WayBlazerinnovating travel



# Watson Pure

- 1. Concept Insights
- 2. Dialog Can be Trained
- 3. Language Translation
- 4. NLC Can be Trained
- 5. Personality Insights
- 6. Retrieve and Rank Can be Trained
- 7. Speech to Text
- 8. Tradeoff Analytics
- 9. Visual Recognition Can be Trained
- 10. Text to Speech



# How to Use Watson Pure Services

### 3 different ways

- 1. Directly via Rest APIs
- 2. Wrap it using language Specific SDKs
- 3. Node Red



# LAB 2

Converting a text to Speech and ask LISA to talk



# LAB 3

Personality Insights

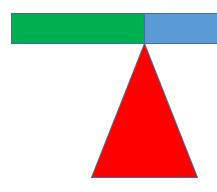


# Science behind Personality Insights

- 1. Big 5 Values
  - 1. Personality Model developed by Costa + McCrae & Norman
  - 2. OCEAN principles
- 2. Need
  - 1. 12 Aspects of Human Behavior
  - 2. Research References:- Kotler + Armstrong, & Ford
- 3. Values
  - 1. What matter most to us
  - 2. Research references:- Schwartz,



# How much did we cover?





## How to Learn more



Call me for a session by abiding our policies :- <a href="mailto:shnandi1@in.ibm.com">shnandi1@in.ibm.com</a>