

# Artificial Intelligence Project

potus.ai

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Driven to Discover<sup>SM</sup>

# Introduction

- Conversational chat-bot depicting Presidents of the United States
- Based on “Designing a Chat-bot that Simulates an Historical Figure” by Faculty of Automatic Control and Computers, University Politehnica of Bucharest
- Paper focused on importing the personality of a historical figure
- Informational Chatbot which conveys information in the form of a conversation
- Can be used to have formal conversations with these eminent personalities

# Methodology

- Creation of intents in IBM Watson Conversation using a CSV File
- Extraction of data from DBPedia using rdflib in Python based on the name of the US President entered by user
- Creation of a HashMap which stores the key-value pairs of intents and its corresponding values in Node.js
- Response based on the mapped intent in the Watson API hosted on a Node.js server

# System Data Flow Representation

```
<rdf:RDF>
- <rdf:Description rdf:about="http://dbpedia.org/resource/Tical_2000:_Judgement_Day">
  <dbp:title rdf:resource="http://dbpedia.org/resource/Donald_Trump"/>
</rdf:Description>
- <rdf:Description rdf:about="http://dbpedia.org/resource/Donald_Trump">
  <dbo:wikiPageRedirects rdf:resource="http://dbpedia.org/resource/Donald_Trump"/>
</rdf:Description>
- <rdf:Description rdf:about="http://dbpedia.org/resource/Donald_Trump_Jr">
  <dbp:father rdf:resource="http://dbpedia.org/resource/Donald_Trump"/>
</rdf:Description>
- <rdf:Description rdf:about="http://dbpedia.org/resource/Survivor:_Cook_Islands">
  <dbp:winner rdf:resource="http://dbpedia.org/resource/Donald_Trump"/>
</rdf:Description>
- <rdf:Description rdf:about="http://dbpedia.org/resource/List_of_Late_Night_with_Jimmy_Fallon_episodes_(2010)">
  <dbp:guests rdf:resource="http://dbpedia.org/resource/Donald_Trump"/>
</rdf:Description>
- <rdf:Description rdf:about="http://dbpedia.org/resource/Donald_John_Trump,_Sr.">
  <dbo:wikiPageRedirects rdf:resource="http://dbpedia.org/resource/Donald_Trump"/>
</rdf:Description>
- <rdf:Description rdf:about="http://dbpedia.org/resource/Donald_Trump">
  <dbo:wikiPageRedirects rdf:resource="http://dbpedia.org/resource/Donald_Trump"/>
</rdf:Description>
- <rdf:Description rdf:about="http://dbpedia.org/resource/Barron_Trump">
  <dbo:wikiPageRedirects rdf:resource="http://dbpedia.org/resource/Donald_Trump"/>
</rdf:Description>
- <rdf:Description rdf:about="http://dbpedia.org/resource/Donald">
  <dbo:wikiPageDisambiguates rdf:resource="http://dbpedia.org/resource/Donald_Trump"/>
</rdf:Description>
- <rdf:Description rdf:about="http://dbpedia.org/resource/Trump_Hotel_Las_Vegas">
  <dbo:owner rdf:resource="http://dbpedia.org/resource/Donald_Trump"/>
  <dbp:developer rdf:resource="http://dbpedia.org/resource/Donald_Trump"/>
</rdf:Description>
- <rdf:Description rdf:about="http://dbpedia.org/resource/List_of_Late_Night_with_Jimmy_Fallon_episodes_(2012)">
  <dbp:guests rdf:resource="http://dbpedia.org/resource/Donald_Trump"/>
```

DBpedia RDF File

abstract	Donald Trump, né le 14 juin 1946 à New York, est un homme d'affaires am
enabler	Fordham University
alt	Trump at lecture before backdrop with elements of logo "TRUMP Donald
birthDate	1946-01-01
birthName	Donald John Trump
birthPlace	Queens
birthYear	1946-01-01
book	Donald Trump
caption	Trump's star on the Hollywood Walk of Fame
child	Eric Trump
commons	y
d	Q22686
depiction	Donald Trump August 19, 2015 (cropped).jpg
description	American business magnate, television personality, author and politician
gender	male
givenName	Donald
height	
homepage	
typestron	Businessman
image	-d4-22
isPrimaryTopicOf	Donald Trump
it	y
research	Category:Donald Trump
name	Donald Trump
relbirth	
occupation	Donald Trump_1
parent	Fred Trump
party	Republican Party (United States)
portal	Right-wing populism
primaryTopic	Donald Trump
relative	Trump (surname)
residence	New York City
s	Yes
signature	Donald Trump Signature.svg
signatureAlt	Donald Trump
spouse	Melva Magyes
subject	Category:American investors
surname	Trump
thumbnail	Donald Trump August 19, 2015 (cropped).jpg?width=300
title	The Trump Organization

Intent Key-Value Pairs

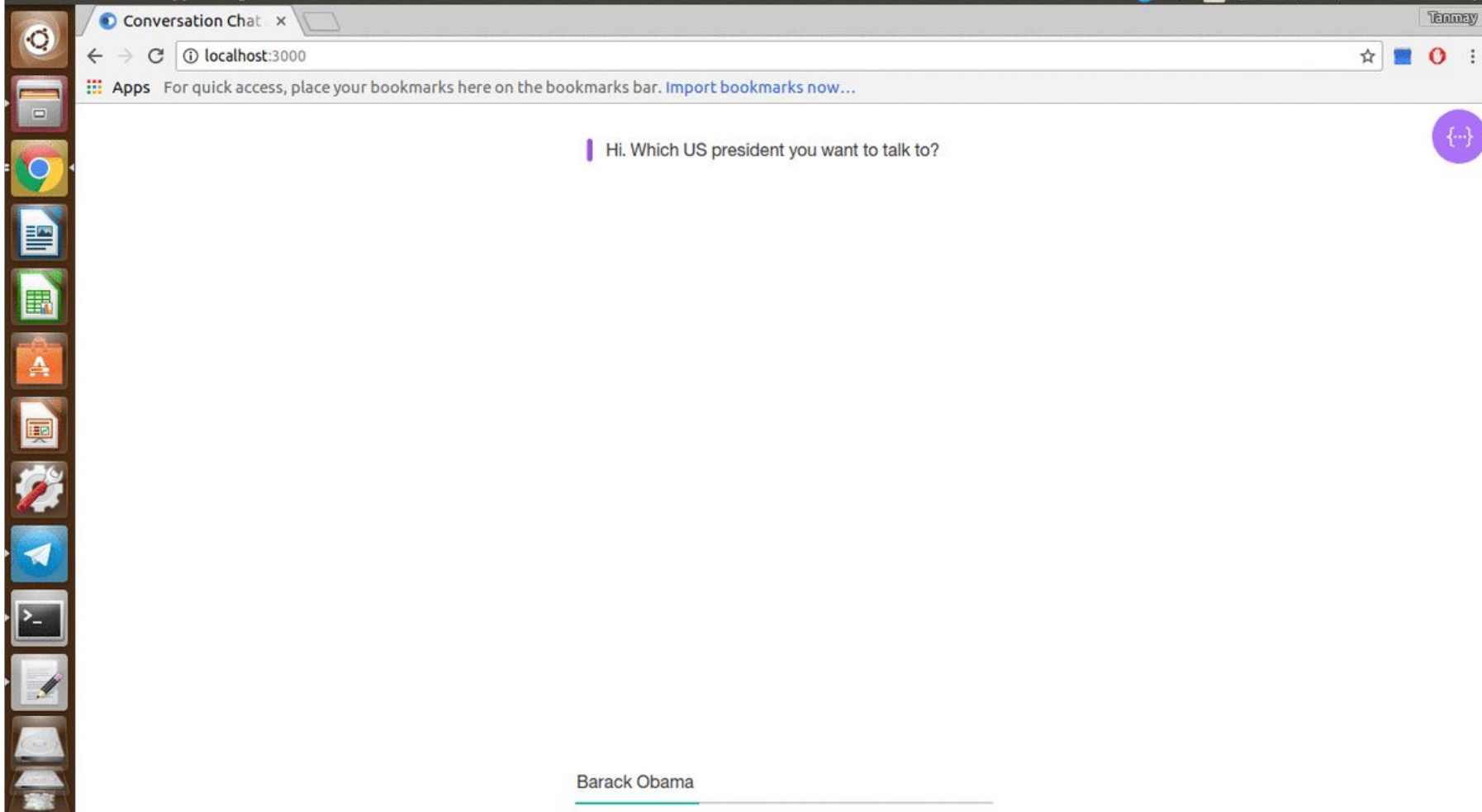
Watson Conversation / Car_Dashboard / Build		
fluid	Intents	Entities
Dialog	Create new	Import
Import	14 intents	Sort by: Newest
Back	#welcome	1
	Hello	
	#almaMater	5
	Where did you go for college?	
	#birthDate	3
	When is your birth anniversary?	
	#birthPlace	2
	What is your birth place?	
	#child	2
	Who is your child?	

IBM Watson Conversation App Dashboard



Node.js Server

Sample Demo



Barack Obama

# Reference

- Node.js Picture (Source: <https://www.visualstudio.com/vs/node-js/>)