

Workshop on AI | ML and Open Source

MKSSS's Cummins College Of Engineering

OPEN SOURCE UNIVERSE

FREE AND ALWAYS WILL BE!



welcome



FOSS and US

- Free and open source – it's free(99.9999999999....%) and its code is easily available on the internet.
- Your internet is driven by FOSS
- 3/4th of your devices are based on it

Cost comparison between Microsoft and FOSS Solutions			
	Microsoft Solution	Linux/FOSS Solution	Savings
Company A: 50 Users	\$87,988	\$80	\$87,908
Company B: 100 Users	\$136,734	\$80	\$136,654
Company C: 250 Users	\$282,974	\$80	\$282,894



Wikipedia

Most of the people on the planet have heard of the name Wikipedia but how many have ever thought of contributing to it? Wikipedia is supported by Wikimedia Foundation. Mediawiki tag their easy bugs with the easy tag. [Click!](#)

Getting Started - http://www.mediawiki.org/wiki/Gerrit/Getting_started.

How to become a Mediawiki Hacker -

http://www.mediawiki.org/wiki/How_to_become_a_MediaWiki_hacker.

Installing Mediawiki on local system - <http://www.mediawiki.org/wiki/MediaWiki-Vagrant>.

IRC - #mediawiki. Now this link is important.

Annoying little bugs - http://www.mediawiki.org/wiki/Annoying_little_bugs.





GNOME

'Gnome-love' is the loving tag for the easy bugs who want to get started with GNOME. If you ever visit the GNOME homepage: the "Getting Involved" link is clearly visible in header's menubar. Anyways here is the link you don't want to search for it.

GNOME maintains a guide for newcomers: <https://wiki.gnome.org/NewcomersTutorial>.

If you want to know on how to submit your first patch, read this:
<https://wiki.gnome.org/GnomeLove/SubmittingPatches>.

If you want to build the code, then just build it from here:
<https://wiki.gnome.org/GnomeLove/JhbuildIntroduction>.

Documentation: <https://developer.gnome.org/>.



Django

Django is a Python based web-framework used by some really big companies e.g. Disqus, Instagram, Transifex etc. To start contributing to Django, head over to the page [Contributing to Django](#).

This page lists down the links to mailing list, IRC channel, Issue Tracker.

Getting Involved in Django: <https://code.djangoproject.com/#Gettinginvolved> Like most of the open source projects, Django has easy fixes for the new contributors too.

Little Easy Improvement - <https://code.djangoproject.com/wiki/LittleEasyImprovements>.

Easy pickings - <https://code.djangoproject.com/query?status=!closed&easy=1>.

The “Little Easy Improvement” also mentions issues for which one can send patches for documentation, writing tests, or improving the codebase.

Django maintains a page to advise new contributors:

<https://docs.djangoproject.com/en/1.9/internals/contributing/new-contributors/>



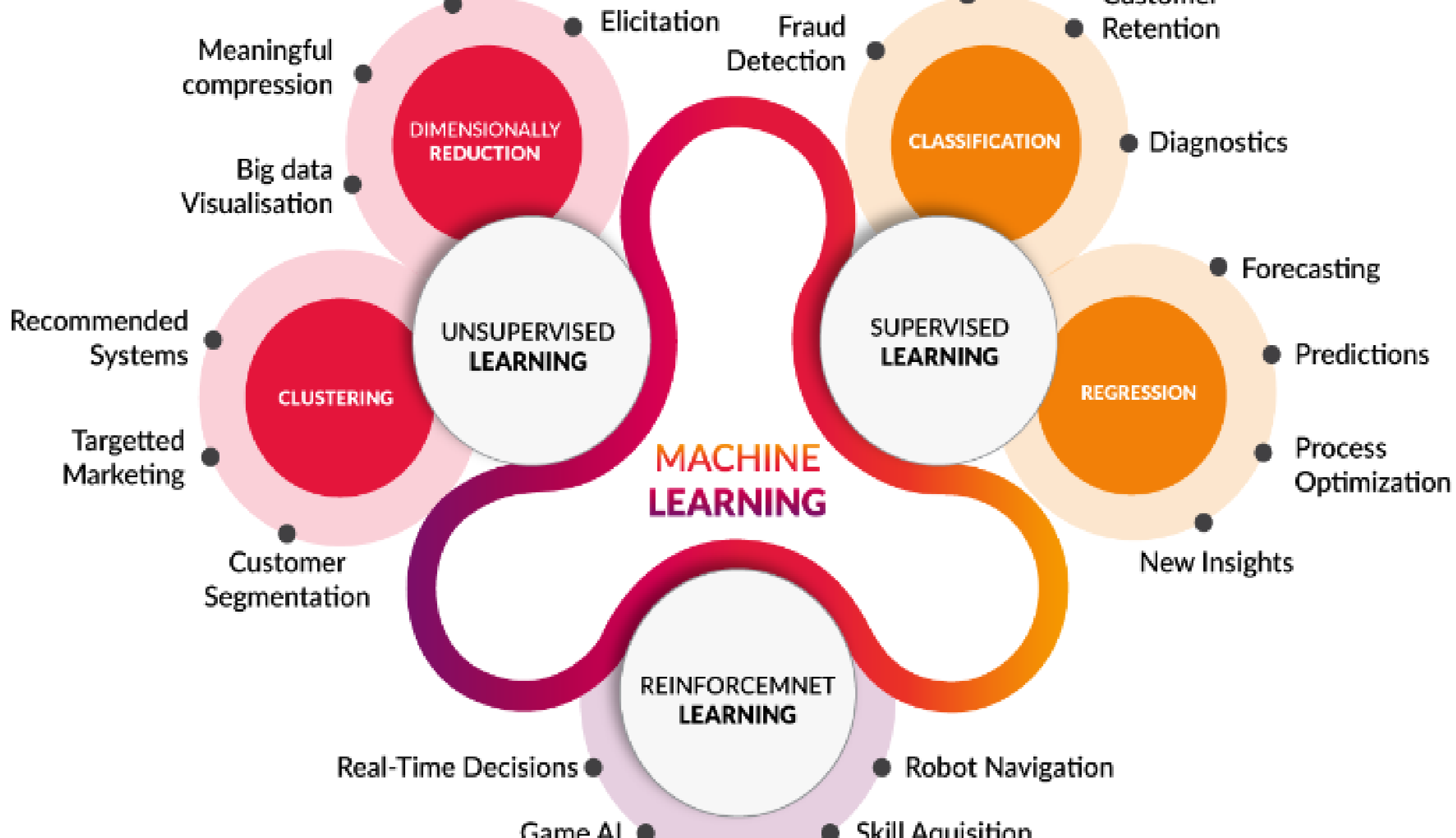
Journey does not end here ,

Look the presenter is telling you something
more 😊



AI | ML

and the power of open source

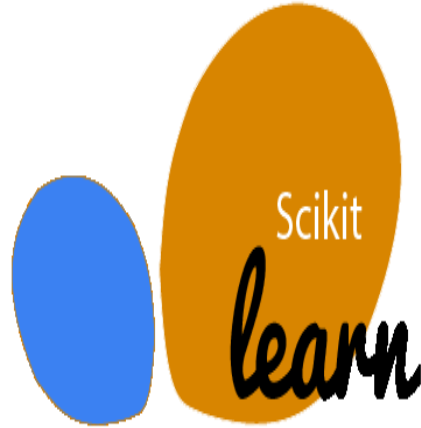


YOU GET A MACHINE LEARNING

**EVERYONE GETS A
MACHINE LEARNING**

YOU GET A MACHINE LEARNING

Most popular frameworks for data science



Companies using Tensorflow :



OpenAI is a research laboratory based in San Francisco, California. Our mission is to ensure that artificial general intelligence benefits all of humanity. The OpenAI Charter describes the principles that guide us as we execute on our mission.



Will you tell us now,
what 'WE' can do?

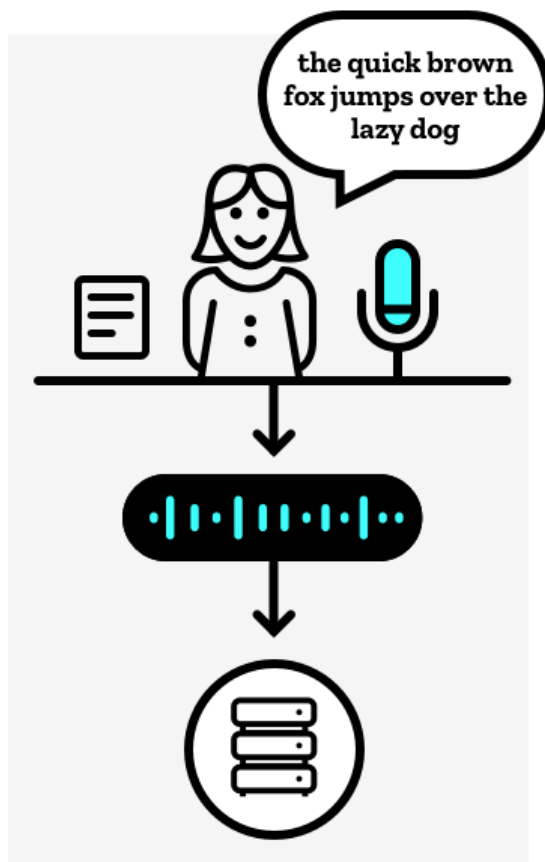


moz://a

deep speech

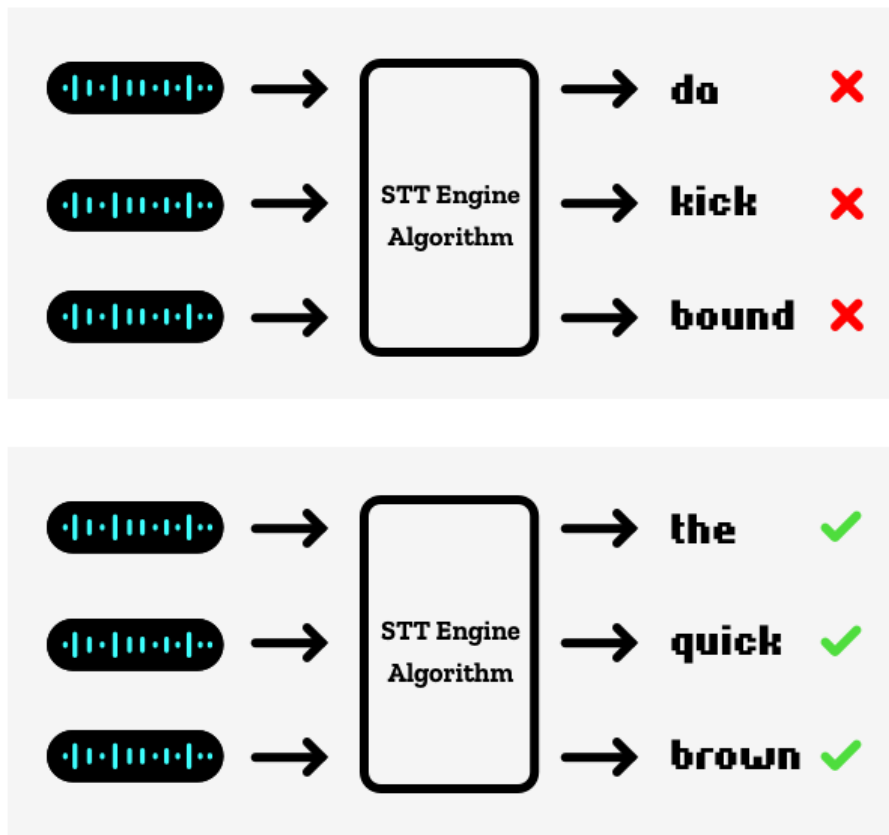
How a Speech Application Learns

Step 1. Record voices



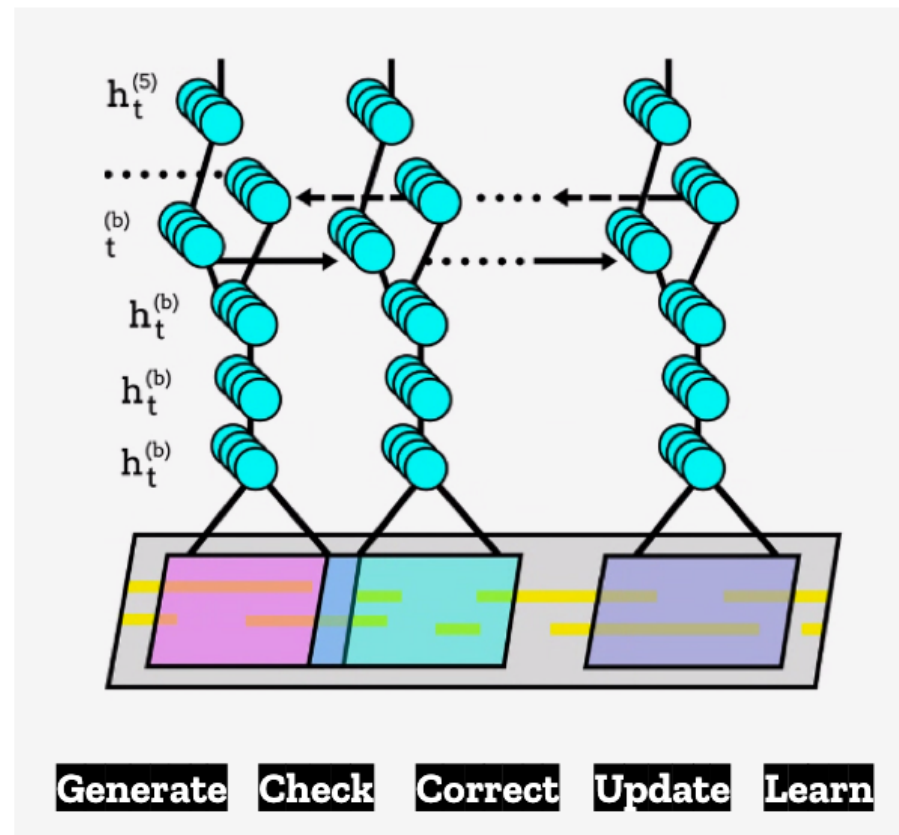
Common Voice Project

Step 2. Input voice data



Open Source STT Engine

Step 3. Train the speech algorithm



Deep Learning Architecture

What about other
such interesting
topics?

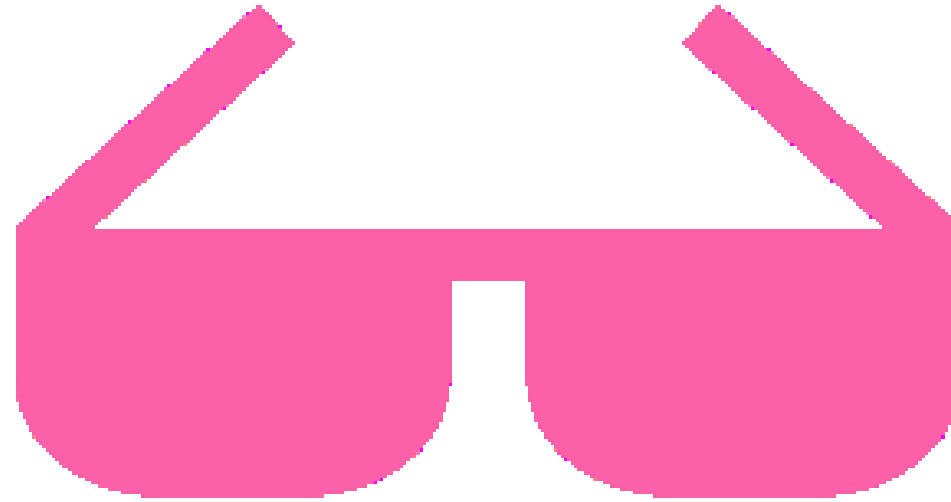
Machine Learning



Deep Learning



Computer Vision



awesome

NLP





Some hands on

Alright! Get your laptops out and be quick.

Finding the most dominant color from image:

- C++.
- Python.
- Some good 'ol OpenCV for ya.