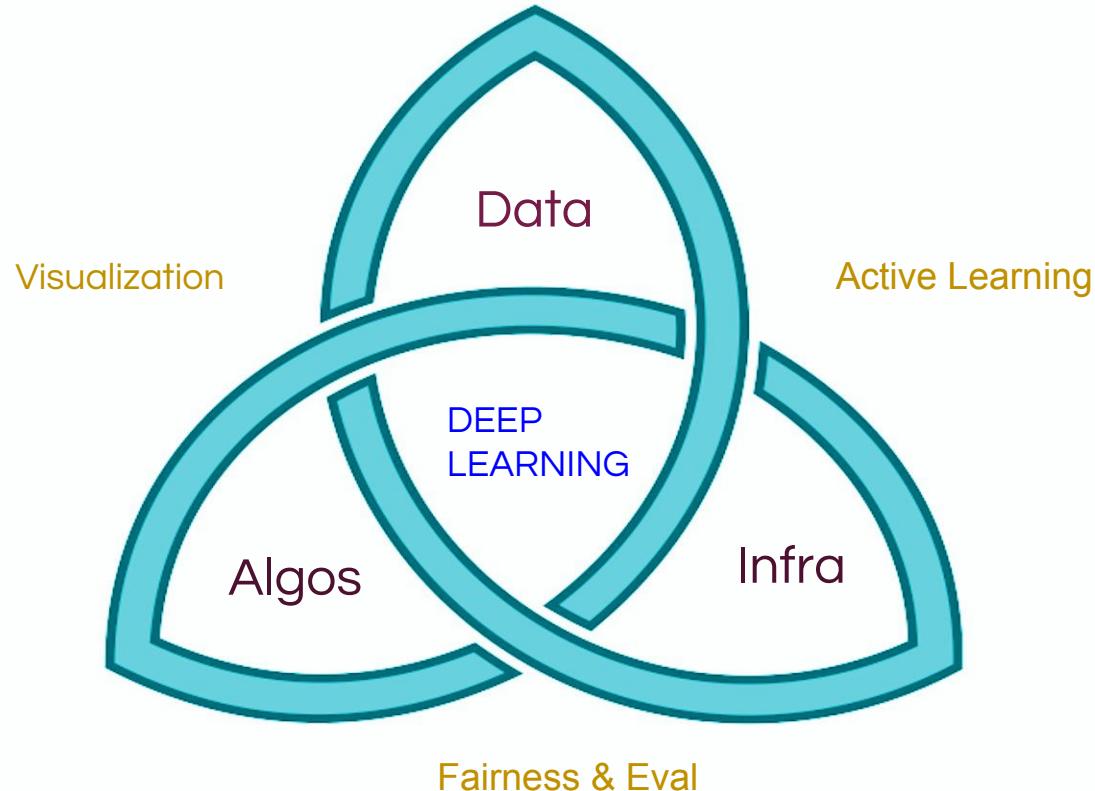
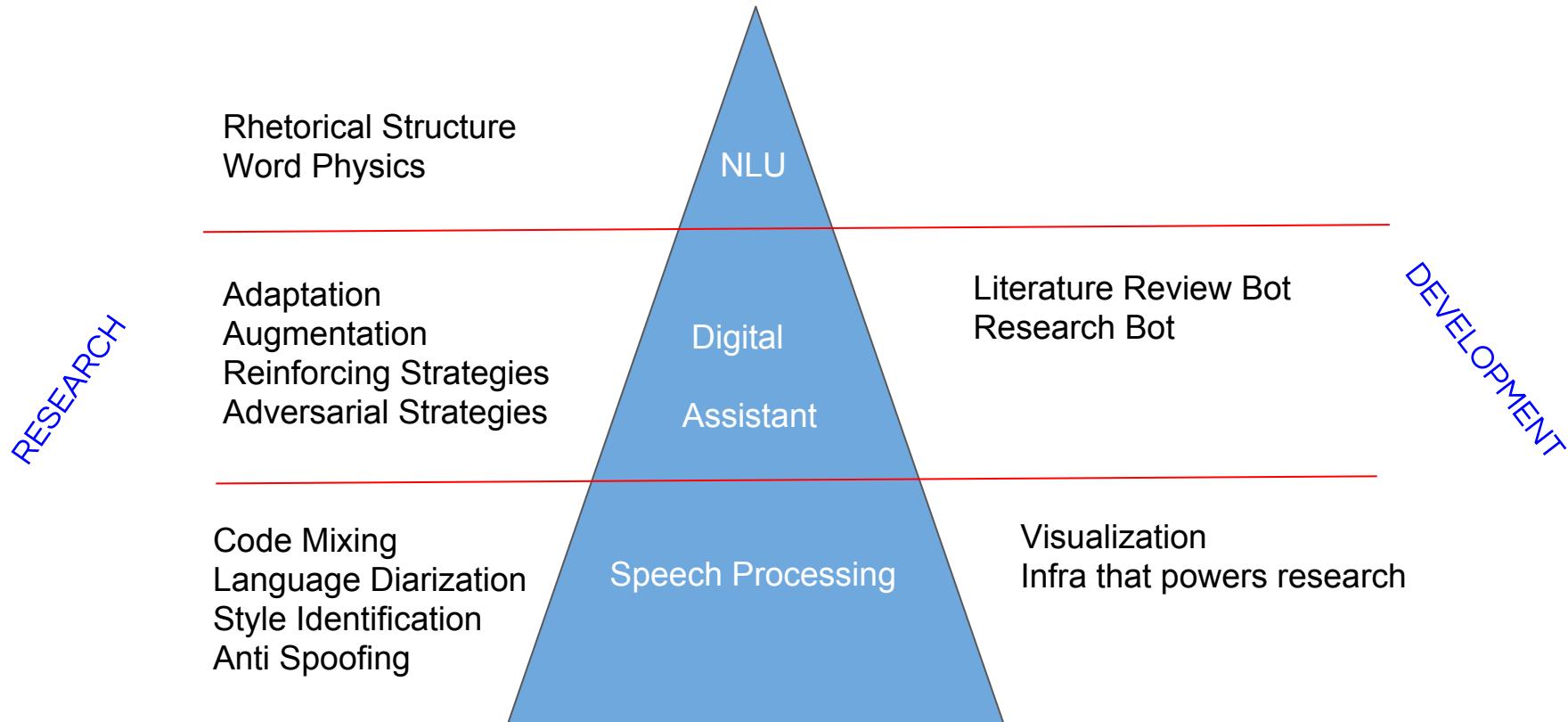


Sporadically updated list of prospective projects

Progress in deep learning depends on the trinity of data, infrastructure and algorithms



Might be beneficial to group the tasks into a hierarchy



I think a good way to get upto speed in deep learning for beginners is by doing challenges. After a couple of years, learning stops and statis develops coz one keeps innovating in the context of short term. Then a good way to level up is by leading a submission (as opposed to building it from scratch). This also imparts managerial skills and promotes long term thinking.

## Speech Processing - Research

- Code Switching / Code Mixing

[http://www.cs.cmu.edu/~srallaba/ProjectPhDMastery/pdfs/overview\\_projects\\_may2018.pdf](http://www.cs.cmu.edu/~srallaba/ProjectPhDMastery/pdfs/overview_projects_may2018.pdf)

- Language and Style Diarization

<http://www.cs.cmu.edu/~srallaba/pdfs/automatic-detection-code.pdf>

- ANTI SPOOFING

<http://www.asvspoof.org>      <http://www.mce2018.org/>

- INTENT RECOGNITION

<http://www.cs.cmu.edu/~srallaba/COMPARE2018/index.html>

## Speech Processing - Development

- **Visualization Tools**

<https://github.com/yosinski/deep-visualization-toolbox>

- **Infra for Literature Review**

<https://groups.google.com/forum/#!forum/learning-enthusiasts>

## Conversational Agents - Research

- Data Augmentation

<http://www.cs.cmu.edu/~srallaba/pdfs/11-785-asr.pdf>

- Domain Adaptation

<http://convai.io/>

## Conversational Agents - Development

- Literature Review Bots

<https://bot.dialogflow.com/5f0136a9-62de-472c-8445-e2b0e639b3e6>