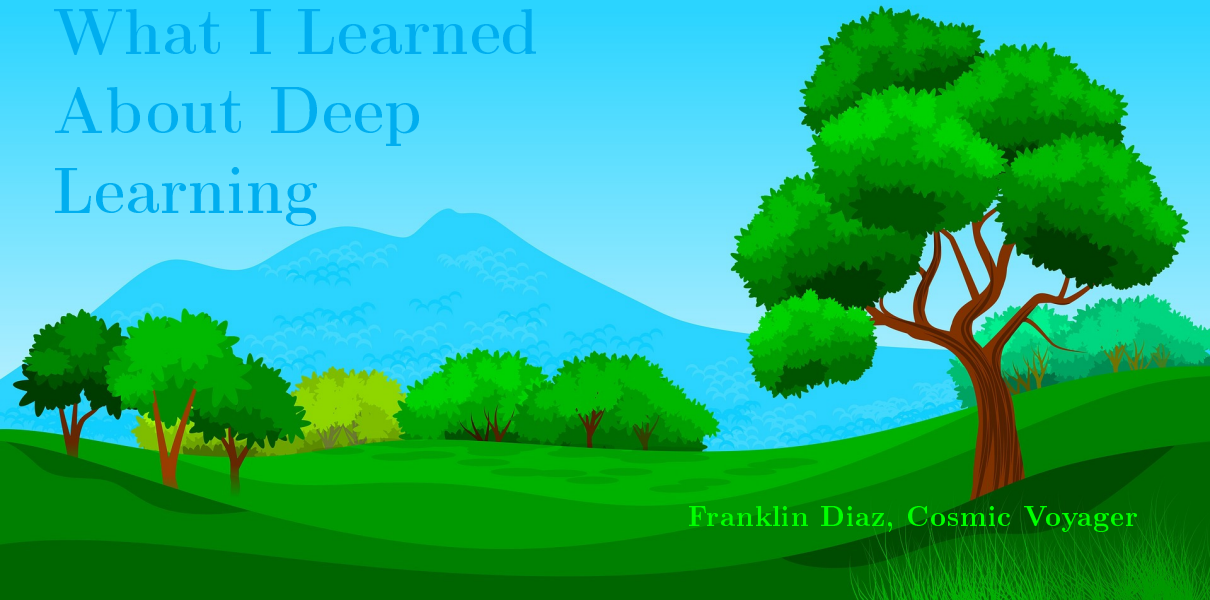


What I Learned About Deep Learning



Franklin Diaz, Cosmic Voyager

Introduction

The Goal

What is Deep Learning, Exactly?

The Journey

Visualizations

Sources and Citations



About Me

- This is an example of a list.
- Important business information.



Introduction

The Goal

What is Deep Learning, Exactly?

The Journey

Visualizations

Sources and Citations



See What I can Do with All These Some Directed Graphs

- Adaptive labeling and processing of graph data
- What can we learn from link orientation?
- Try to understand all these cool looking math symbols.



Introduction

The Goal

What is Deep Learning, Exactly?

The Journey

Visualizations

Sources and Citations



Quick Intro to a Giant Topic

- This is an example of a list.
- Important business information.



Introduction

The Goal

What is Deep Learning, Exactly?

The Journey

Visualizations

Sources and Citations



What Have I Gotten Myself Into?

- This is an example of a list.
- Important business information.



Yak Shaving, Side Quests, Endless Rabbit Holes

- Makefiles and GNU Autotools
- NVIDIA Jetson Nano as cluster nodes
- SLURM cluster scheduler
- OpenMPI for parallel builds
- Docker and Containers
- k8s and Rancher k3s
- Data Version Control dvc.org
- Storing/accessing data in GCP buckets
- Continuous Machine Learning cml.dev
- Internal Pypi and Debian/Raspbian mirror (used too much bandwidth on home connection)



Data Collection

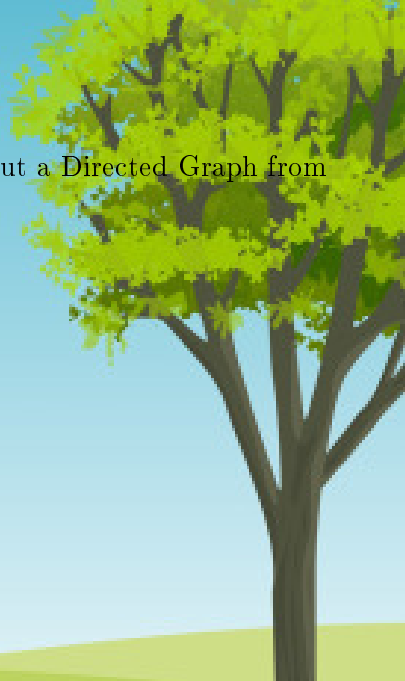
A big barrier to entry was removed by the ability to output a Directed Graph from Terraform.

```
# Generate a PNG from Terraform
```

```
terraform graph | dot -Tpng > graph.png
```

```
# Generate vector graphic from Terraform
```

```
terraform graph | dot -Tsvg -o graph.svg
```



Introduction

The Goal

What is Deep Learning, Exactly?

The Journey

Visualizations

Sources and Citations





Figure:

Introduction

The Goal

What is Deep Learning, Exactly?

The Journey

Visualizations

Sources and Citations



Sources and Citations

- This is an example of a list.
- Important business information.

