Deep Learning

Big Data & Machine Learning Bootcamp - Keep Coding

Outline

1. Intro
2. About
3. Module Content
4. Schedule
5. Tools
6. Evaluation

1. Intro

Welcome to Deep Learning!

1. **From zero to hero**: We'll cover the most fundamental ideas and some of the most complex applications in Deep Learning

2. Let's make this module dynamic and interactive. ***Curiosity ON, please!***

3. There will be **8 sessions each one of 4 hours** (short break of 15 to 20 minutes)

2. About - Andres Diaz-Pinto

Passionate about machine learning
Finished my PhD in Computer Vision & Deep Learning in 2019
Currently a Research Fellow at King's College London
LinkedIn: https://www.linkedin.com/in/diazandr3s/

Areas of interests: Machine Learning, Deep Learning, Computer Vision and Image Analysis

3. Module Content

In this module, we'll cover the most important and topics on neural and deep neural networks.

- Backpropagation
- Deep learning frameworks (Tensorflow, Keras)
- Regularization and optimization
- Convolutional Neural networks (CNN)
- Transfer learning
- How to structure a machine learning project
- Sequence models

4. Schedule

Day of Week	Date	Event
Monday	***13/12/2021***	Session I
Tuesday	***14/12/2021***	Session II
Thursday	***16/12/2021***	Session III
Monday	***10/1/2022***	*Session IV*
Tuesday	***11/1/2022***	*Session V*
Thursday	***13/1/2022***	*Session VI*
Monday	***17/1/2022***	*Session VII*
Tuesday	***18/1/2022***	*Session VIII*
Sunday	***30/1/2022***	*FINAL PROJECT*

5. Tools

- GitLab: https://gitkc.cloud/keepcoding-bootcamps/full-stack-big-data-ai-y-ml-viii/deep-learning/deep-learning/deep-learning
- Python 3
- Jupyter notebook
- Google Colab - https://colab.research.google.com/
- Deep Learning Specialization in Coursera https://www.coursera.org/specializations/deep-learning
- http://www.pyimagesearch.com
- Deep Learning book: https://www.deeplearningbook.org/

6. Evaluation

- Questions and active interaction during sessions
- Final project
- Final Mark: **APTO** / **NO APTO**