TensorFlow for Deep Learning Bootcamp:

Notes taken for the **TensorFlow for Deep Learning Bootcamp**, by **Zero to Mastery**.

Notes taken by Travis Rillos. These notes and all app code and practice code organized in the following Github repository:

https://github.com/xroadtraveler/tensorflow_for_deep_learning_bootcamp.

Other Course Resources:

Course Github repository: https://github.com/mrdbourke/tensorflow-deep-learning

Online Book: https://dev.mrdbourke.com/tensorflow-deep-learning/

Zero to Mastery Resources:

Website: https://zerotomastery.io/

YouTube: https://www.youtube.com/@ZeroToMastery

LinkedIn Group: https://www.linkedin.com/groups/12121940/

Discord Server: @ZeroToMastery

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Section 1 – Introduction:

Course Outline:

- Just an overview.
- There are 18 Sections.
- End goal is to pass Google's TensorFlow exam.
- In this video, the order we'll be focusing on things appears to be:
 - TensorFlow Fundamentals,
 - A NumPy and Pandas section,
 - o A Machine Learning Primer,
 - Setting up a Developer Environment (Jupyter Notebook),
 - Neural Network Regression,
 - Neural Network Classification,
 - o Convolutional Neural Networks (including Computer Vision),
 - Transfer Learning,
 - This is where we start building real-world projects.
 - The first project is called "Food Vision".
 - Natural Language Processing (NLP),
 - How LLM's are made.
 - We'll create a project called "SkimLit".
 - o Time Series,
 - We'll create a project called "BitPredict".
 - And finally, <u>TensorFlow Certification</u>.



Join Our Online Classroom:

- Mostly a plug for the Discord server. A private link to the channel is provided in the following page. I won't post that to the notes, in respect for their course.
- Once I finish the course, I can post my certificate to their "Alumni Section".
- **Note:** The link wants me to set up a new account that's separate from my existing Discord account? I wonder if I can work around this...
 - o I was able to manually enter the invite link into my mobile app.

ZTM Resources:

Website: https://zerotomastery.io/

- The community section on the website (https://zerotomastery.io/community/) contains additional resources including *Coding Challenges*.
- It also contains Open Source Projects.
- There are other things, but I was less interested in them.

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- There's also a very useful tab containing a multitude of *Cheat Sheets*.
- Another useful section involves advice on *Career Paths*.

Section 2 – Deep Learning and TensorFlow Fundamentals:

What is Deep Learning?:

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