**3DP Experiments**

A ML WSorkspace to allow me to isolate and reproduce my dissertation experiments.   
**Explore the docs »**   
  
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**Table of Contents**

1. About The Project

◦ Built With

2. Getting Started

◦ Prerequisites

◦ Installation

◦ Updating

3. Usage

4. Roadmap

5. Contributing

6. License

7. Contact

8. Acknowledgements

**About The Project**

This is a workspace for my dissertation experiments

**Built With**

• Machine Learning Workspaces

• Docker for Data Science – A Step by Step Guide

• dexpy

**Getting Started**

**Prerequisites**

Install Docker

• See Install Docker Engine

**Installation**

1. Clone the repo  
  
  
  
git clone https://github.com/wilsongis/3DP\_Experiments.git

2. Enter workspace folder  
  
  
  
cd 3DP-Experiments

3. Create ML Workspace  
  
  
  
docker run -d \

4. -p 8080:8080 \

5. --name "3DP-workspace" \

6. -v "${PWD}:/workspace" \

7. --env AUTHENTICATE\_VIA\_JUPYTER="mytoken" \

8. --shm-size 512m \

9. --restart always \

10. mltooling/ml-workspace:0.12.1

11. Install Python Packages  
  
  
  
pip install -U pip setuptools wheel

12. pip install -r requirements.txt

13. conda install -c conda-forge pyomo

14. conda install -c conda-forge ipopt glpk

15. conda install -c r r-irkernel  
  
  
  
  
**Updating**

This will override your existing requirements.txt.  
If you want to append, use >> instead of >

pip list --format=freeze > requirements.txt

**Usage**

Use this space to show useful examples of how a project can be used. Additional screenshots, code examples and demos work well in this space. You may also link to more resources.

*For more examples, please refer to the Documentation*

**Roadmap**

See the open issues for a list of proposed features (and known issues).

**Contributing**

Contributions are what make the open source community such an amazing place to be learn, inspire, and create. Any contributions you make are **greatly appreciated**.

1. Fork the Project

2. Create your Feature Branch (git checkout -b feature/AmazingFeature)

3. Commit your Changes (git commit -m 'Add some AmazingFeature')

4. Push to the Branch (git push origin feature/AmazingFeature)

5. Open a Pull Request

**License**

Distributed under the MIT License. See LICENSE for more information.

**Contact**

Your Name - @wilsongis - email

Project Link: https://github.com/wilsongis/3DP\_Experiments

**Acknowledgements**

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