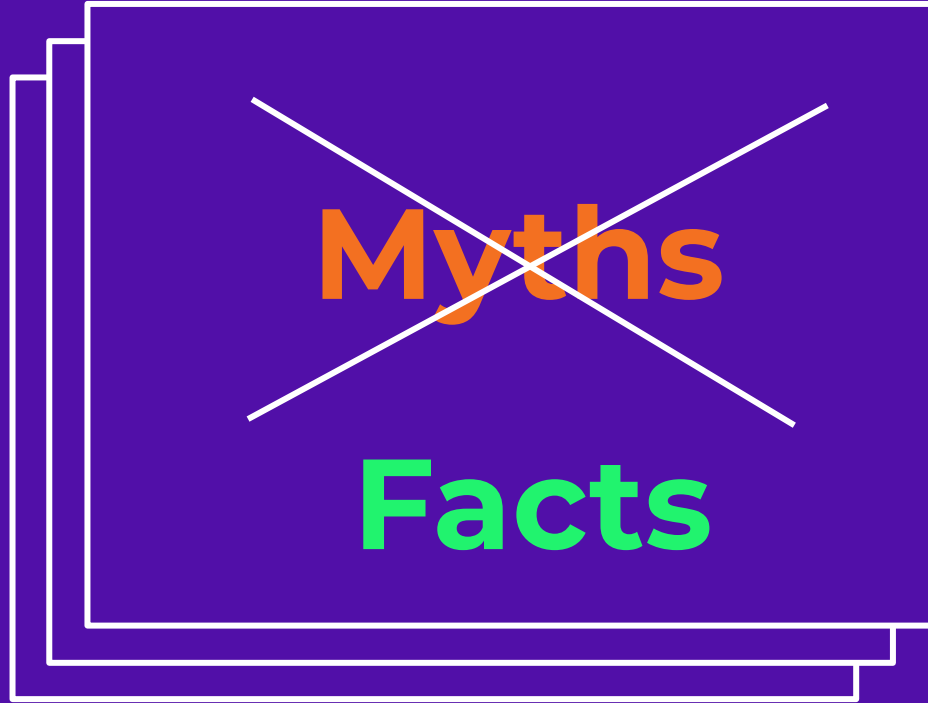


Get started on your  
**Machine Learning**  
projects

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space



myth #1

Machine learning is a **magical black box**

# advice #1

Make sure you have an individual or group in **charge**  
of the ML project **internally**.

## myth #2

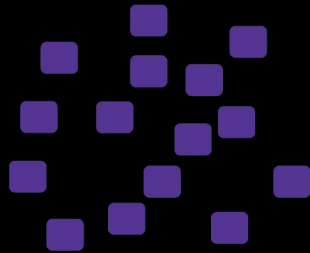
Machine Learning can solve all of our problems

advice #2



ML Algorithm

+



Data

=



Model

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# myth #3

You first need a **data warehouse** or **data lake** before you can start **getting value** from your data

# advice #3

Show the value and possibility as fast as possible

**be ambitious, start small, and create value fast**



# myth #4

We first need to invest money on sensors

## advice #4

Do **not** invest money on **sensors** before you know to what purpose

# myth #5

You need **big data** before you can get  
**value** from Machine Learning projects

# Big Data

Volume  
Data size

Variety  
# Data Sources

Velocity  
Speed

Value  
Business value

Veracity  
Trustworthiness

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# Big Data

```
graph TD; A[Big Data] --> B[Volume Data size]; A --> C[Variety # Data Sources]; A --> D[Velocity Speed]; A --> E[Value Business value]; A --> F[Veracity Trustworthiness];
```

Volume  
Data size

Variety  
# Data Sources

Velocity  
Speed

Value  
Business value

Veracity  
Trustworthiness

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# Right Data

```
graph TD; RD[Right Data] --> V[Volume]; RD --> Var[Variety]; RD --> Vel[Velocity]; RD --> Val[Value]; RD --> Ver[Veracity];
```

Volume  
Data size

Variety  
# Data Sources

Velocity  
Speed

Value  
Business value

Veracity  
Trustworthiness

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# Right Data

```
graph TD; A[Right Data] --> B[Volume]; A --> C[Variety]; A --> D[Velocity]; A --> E[Value]; A --> F[Veracity];
```

Volume  
representative

Variety  
vibration

Velocity  
milliseconds

Value  
Reduce  
unplanned  
downtime

Veracity  
# Breakdowns

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# Right Data

```
graph TD; RD[Right Data] --> V[Volume]; RD --> Var[Variety]; RD --> Vel[Velocity]; RD --> Val[Value]; RD --> Ver[Veracity];
```

Volume  
220,320

Variety  
52 sensors

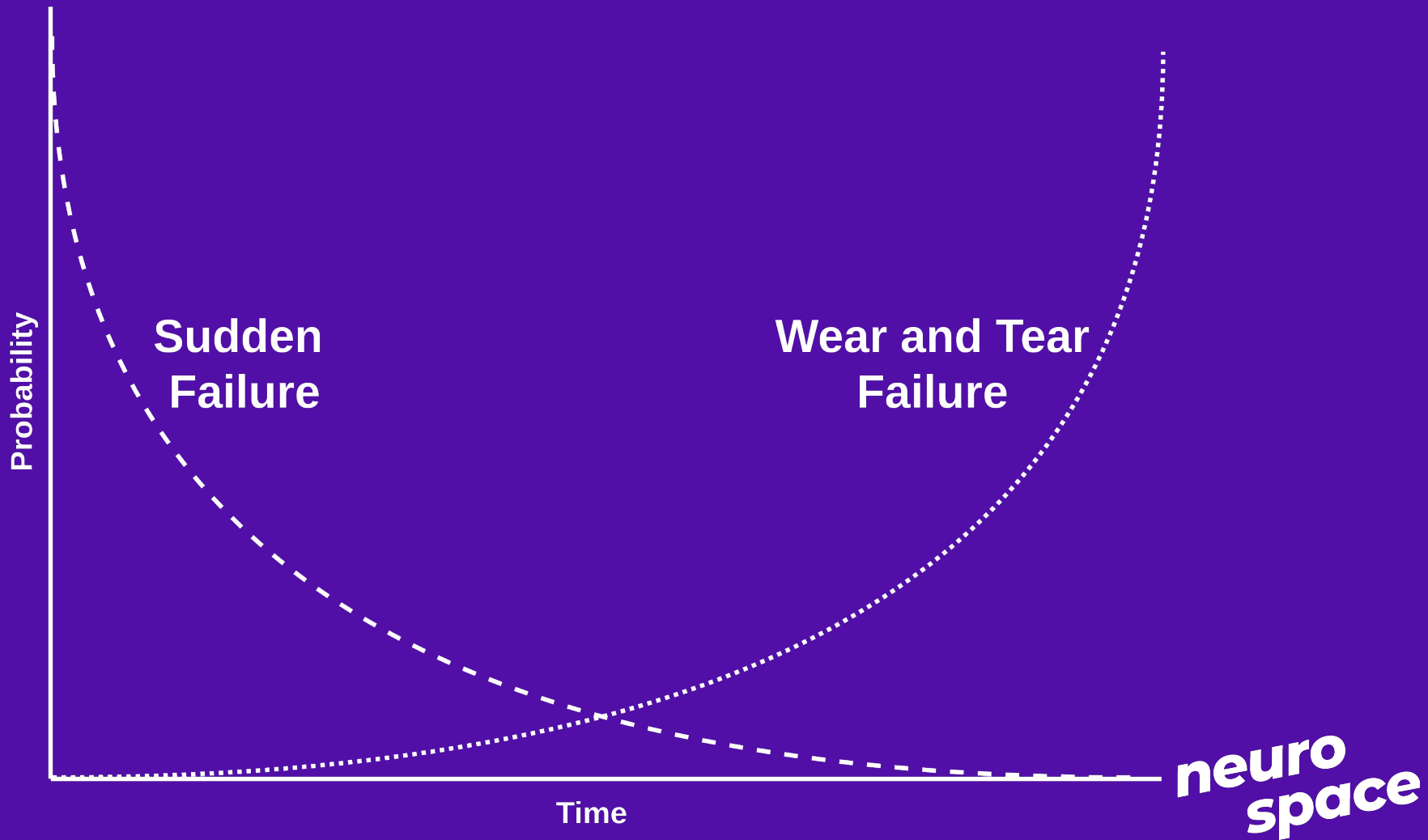
Velocity  
minutes

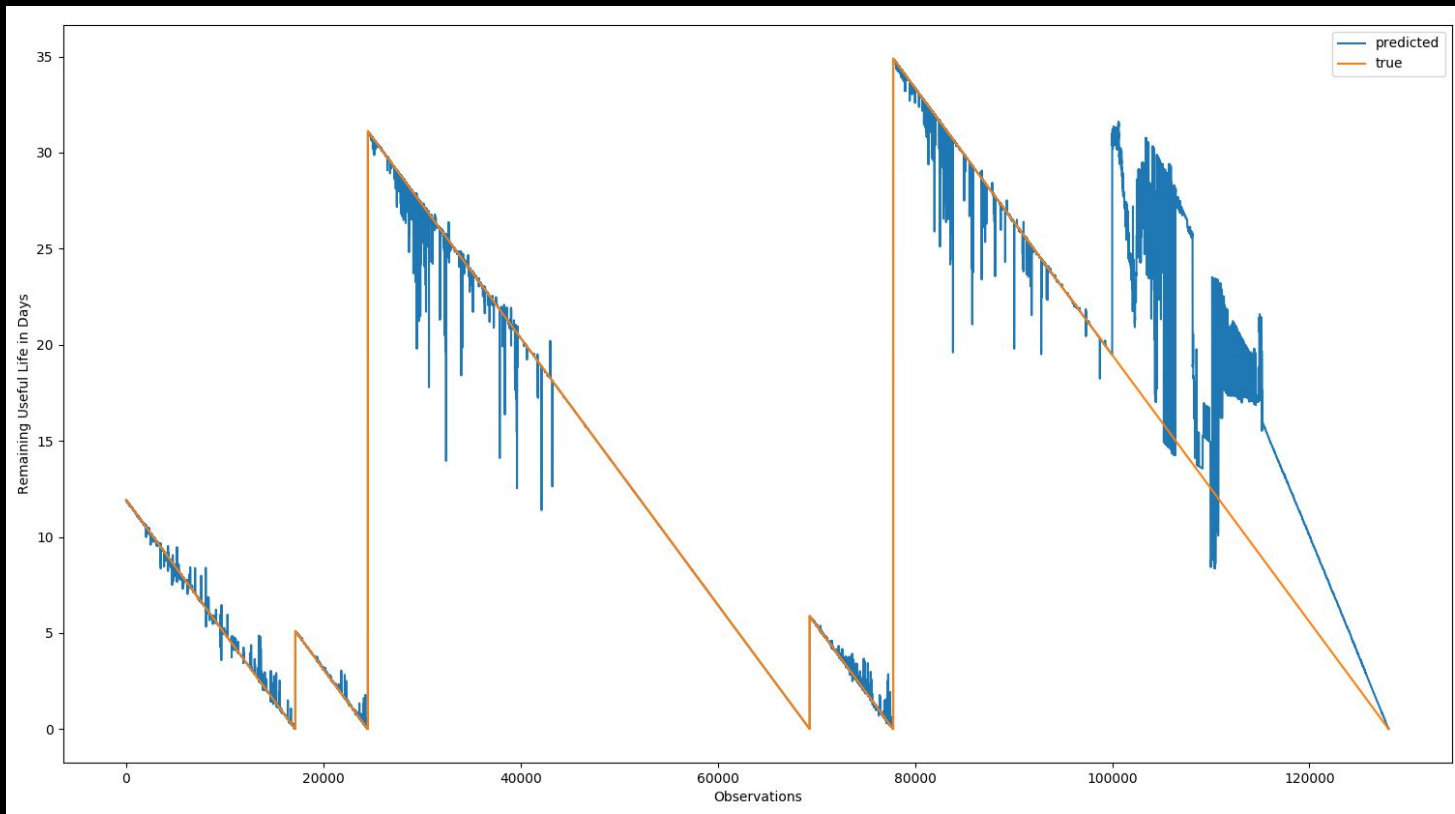
Value  
Detect wear  
and tear  
breakdowns

Veracity  
7 breakdowns  
occurs

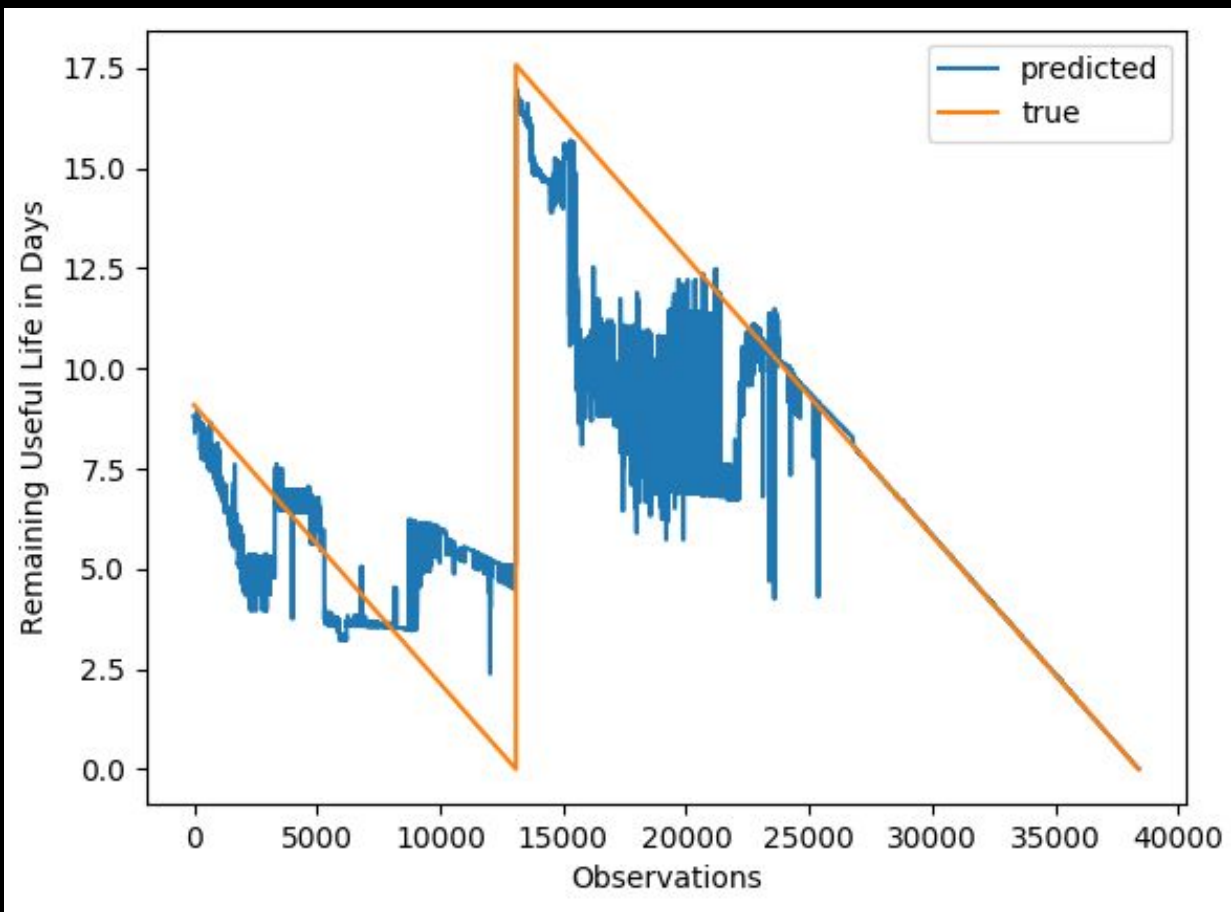
neuro  
space







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space**



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last advice

We will in **most cases** need a label and “*other*” is not a good one

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**be ambitious, start small, and  
create value fast**

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