

# 0-to-hero2

XX Mentors <> XX Sessions

# Me

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# Job / Education

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- Education

Computer Engineering, METU, Ankara

- Experience

Current :

Landing AI, AI Acceleration Platform, San Francisco Area

Past:

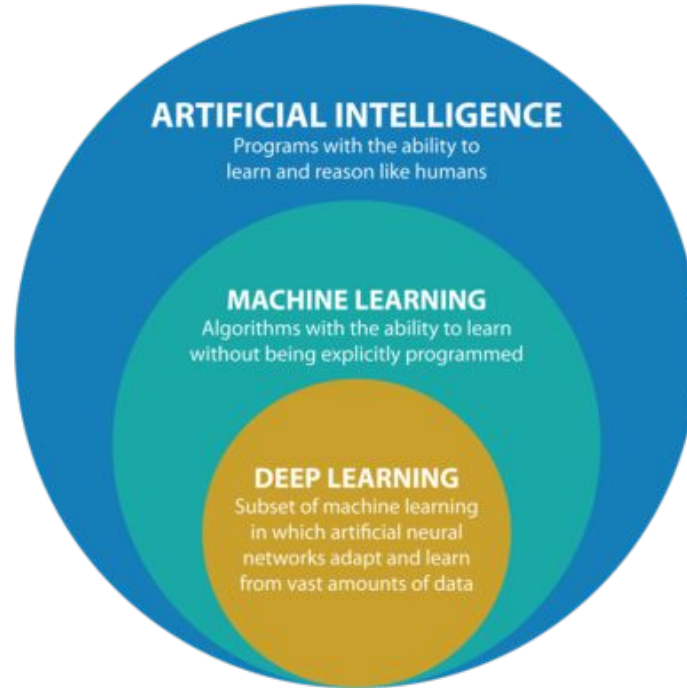
Facebook, iOS Mobile App Reliability

Facebook, Instagram Explore Recommender Systems

Microsoft, Azure Log Analytics

# AI vs ML

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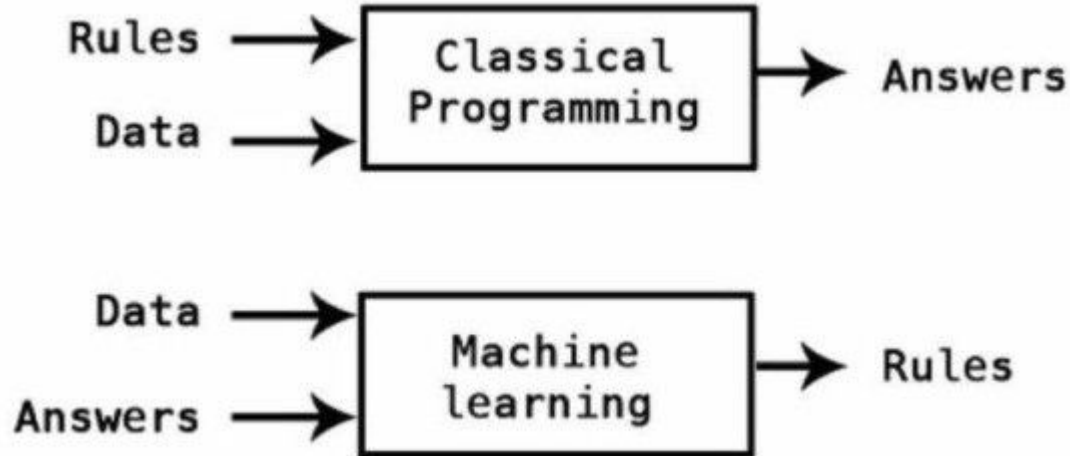
# ML&DL Use Case : Cat Detector App

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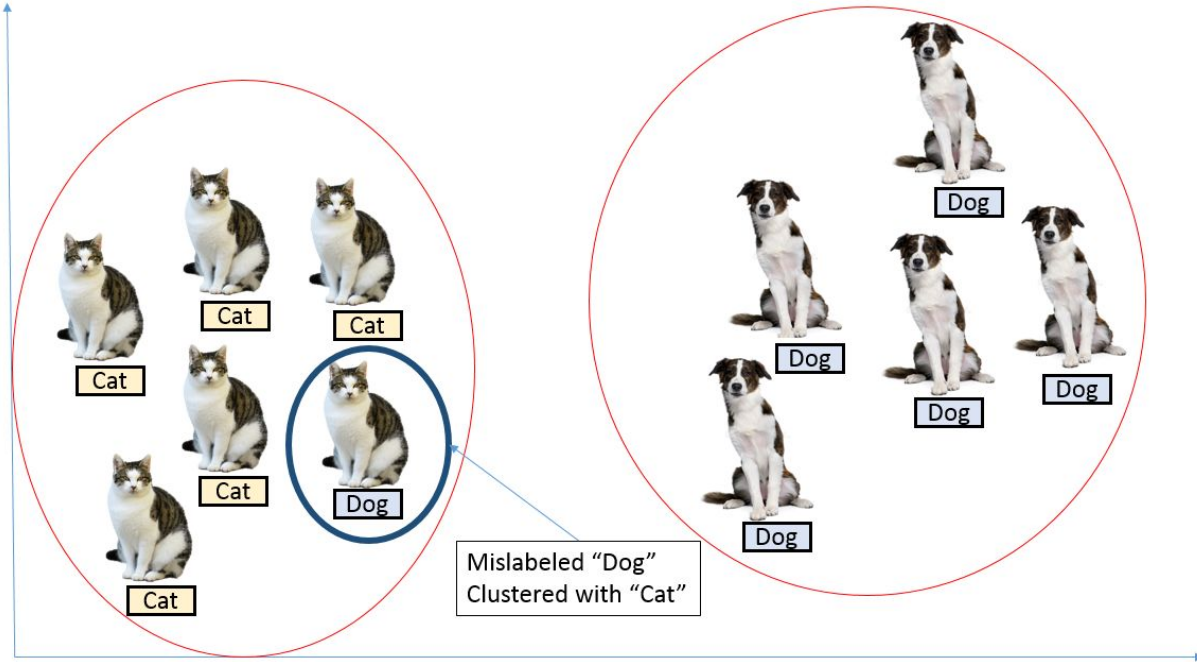


# Classical Programming vs ML

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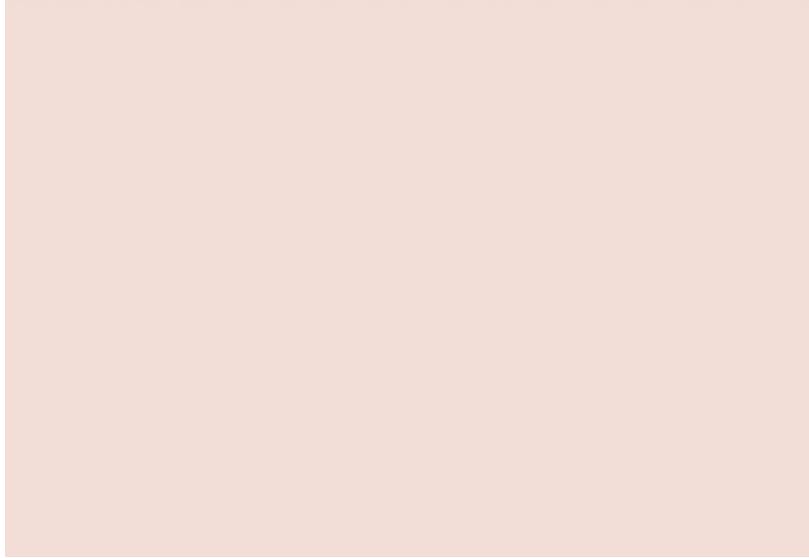
# ML Input: Data and Answer



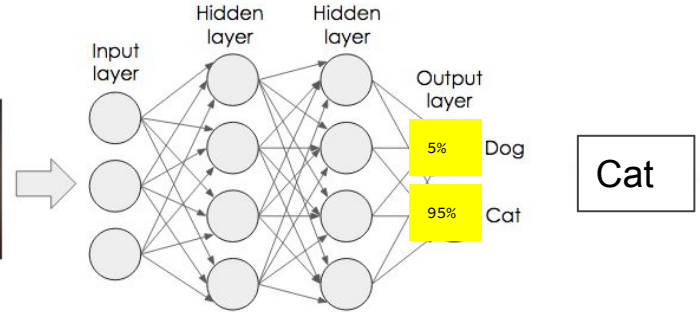
# Convolutional Neural Networks

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Training



Prediction





# Yann LeCun



Chief AI Scientist for Facebook AI Research (FAIR)

He is well known for his work on optical character recognition and computer vision using convolutional neural networks (CNN), and is a founding father of convolutional nets.

Yann LeCun et al. (1989)<sup>[32]</sup> used back-propagation to learn the convolution kernel coefficients directly from images of hand-written numbers. Learning was thus fully automatic, performed better than manual coefficient design, and was suited to a broader range of image recognition problems and image types.

This approach became a foundation of modern computer vision.

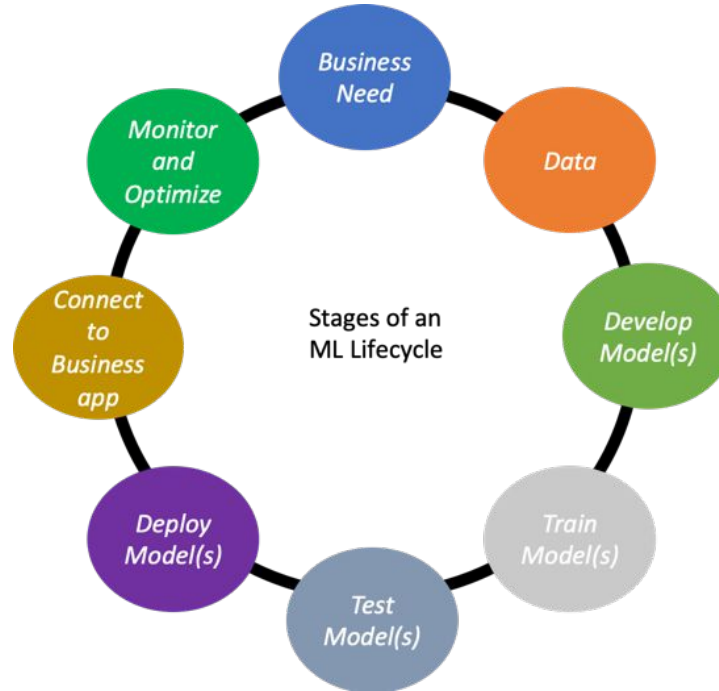
# Engineering Roles in ML Systems

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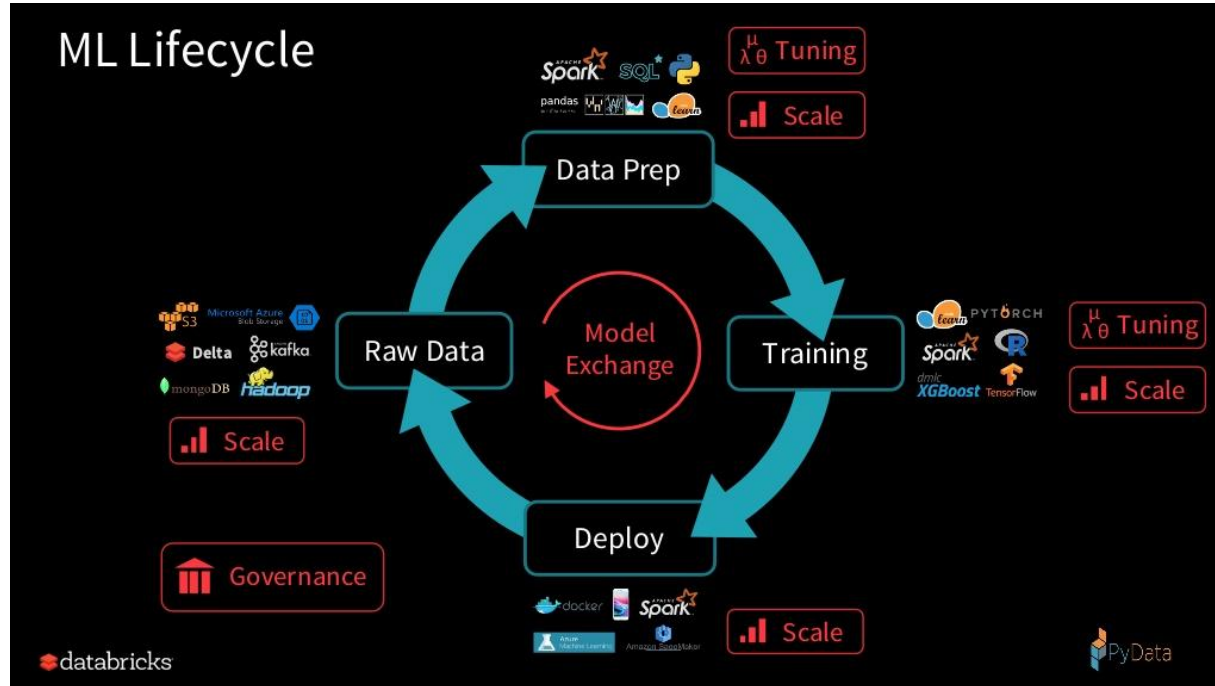
- ML Engineers
- ML Research Scientists
- Data Engineers
- ML Platform Engineers  
(Traditional Software Engineering Roles)

# ML Lifecycle

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# ML Lifecycle: Technical Stages

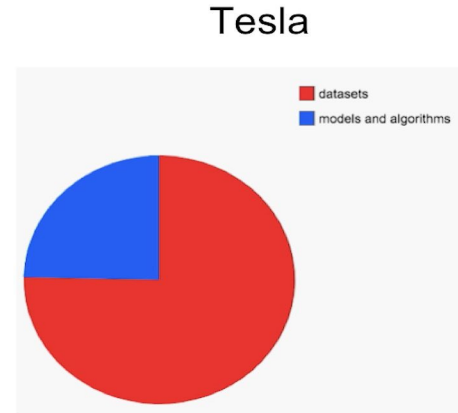
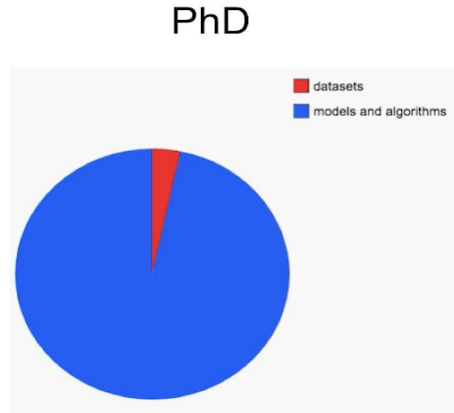


# Research Scientist vs ML Engineer

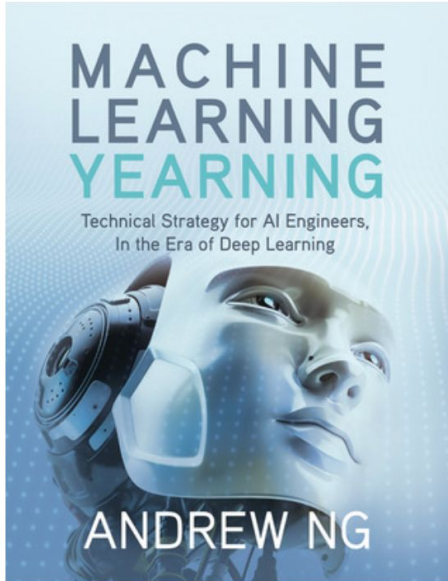
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Andrej Karpathy:

Amount of lost sleep over...



# Reading: Deeplearning.ai



Machine Learning Yearning, a free book that Dr. Andrew Ng is currently writing, teaches you how to structure machine learning projects. This book is focused not on teaching you ML algorithms, but on how to make them work.

[Download a free draft copy of Machine Learning Yearning](#)

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<https://sites.google.com/view/mlss-2019/lectures-and-tutorials?fbclid=IwAR33ZHE2I8hVcT6F7vcLSf3GbIDBhQ4jtLXkiktiE5OLOADDKt4VCVqq1rY>

<https://course.fast.ai/>

<https://www.kaggle.com/competitions>

<https://www.deeplearning.ai>

Best bible book: <http://aima.cs.berkeley.edu/>

# Coursera Certification

