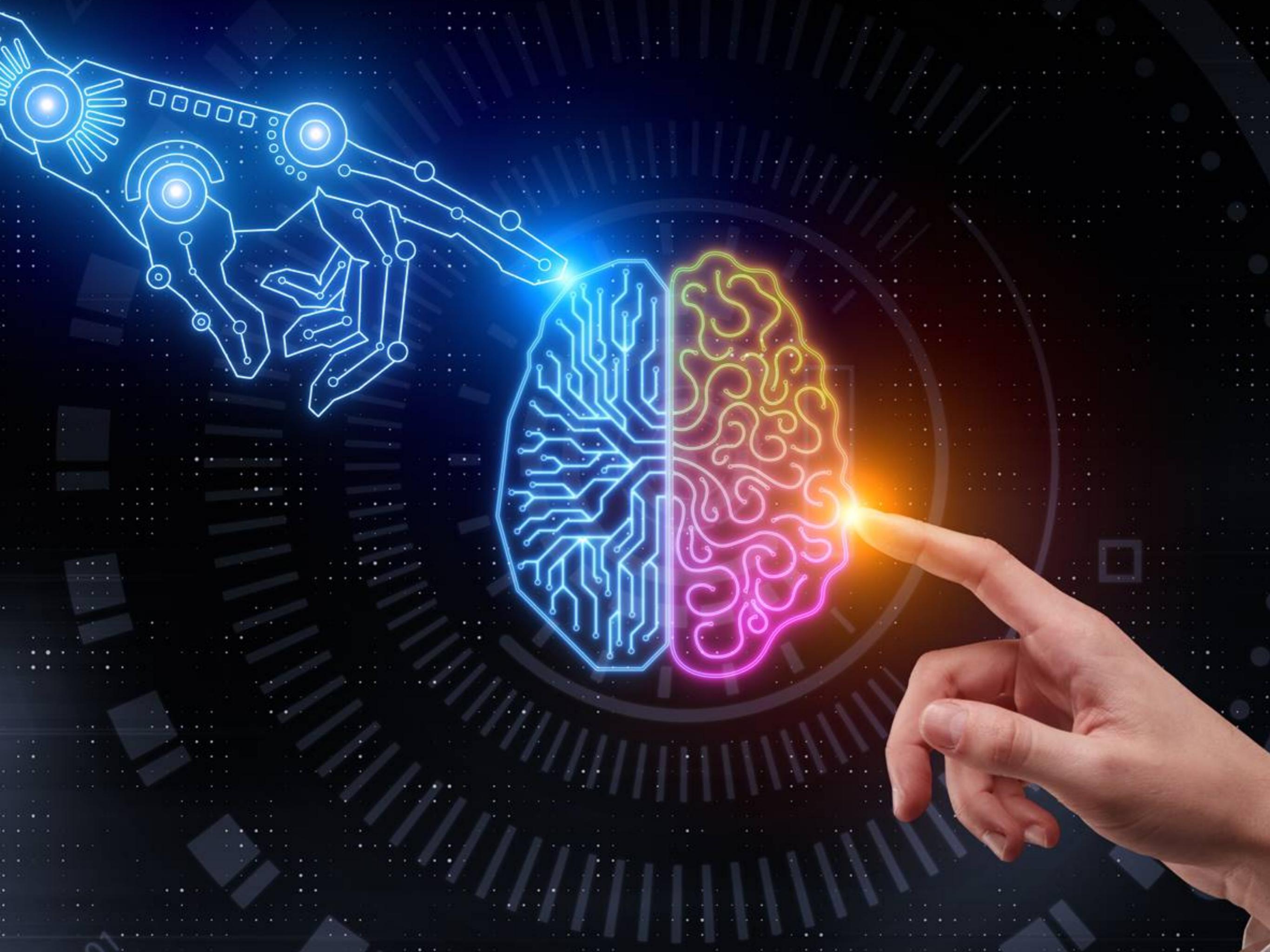


SC201

Lecture 1

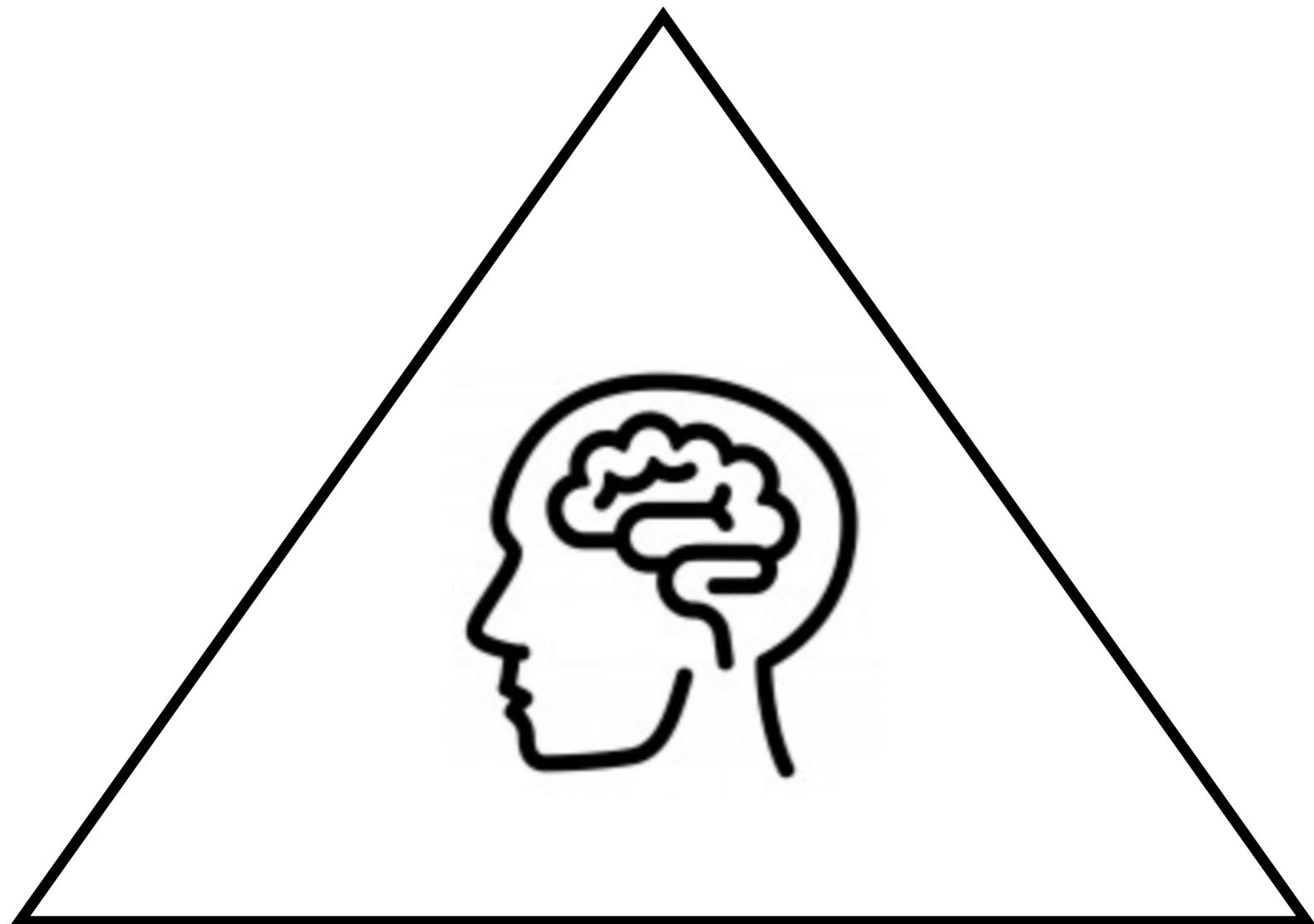


AI

Machine Learning

**Deep
Learning**

Learning



Vision

Language

Date (Time)		Lecture Outline
11/21 (1000-1300)	Assignment1	Introduction to Machine Learning
11/28 (1000-1300)		Machine Learning I - Linear Regression
12/05 (1000-1300)	Assignment2	Machine Learning II - Logistic Regression
12/12 (1000-1300)		Data Pre-processing & Training & Testing
12/19 (1000-1300)		Titanic Prediction & Overfitting & Regularization
12/26 (1000-1300)	Assignment3	Existing Models - pandas+sklearn
01/09 (1000-1300)		Hinge Loss & PCA
01/16 (1000-1300)	Kaggle	Decision Tree & Random Forests
01/23 (1000-1300)		Neural Network I - Matrix & Vectorization
02/06 (1000-1300)	Project Topic	Neural Network II - Forward/Backward Propagation
02/13 (1000-1300)	Assignment4-1	Neural Network III - DNN
02/20 (1000-1300)	Assignment4-2	Neural Network IV - Softmax & Recipe for Training NN
03/06 (1000-1300)	Group Assign	Deep Learning I - Optimizers & Dropout & CNN Intro
03/13 (1000-1300)	Assignment5	Deep Learning II - CNN & Pytorch
03/20 (1000-1300)		Cat Dog Classifier & Transfer Learning
03/27 (1000-1300)	Milestone	Deep Learning III - RNN & NLP
04/10 (1000-1300)		Pre Poster Session
04/17 (1000-1300)		Poster Session



Yi-Ming Tseng

彭建維 黃柏偉 黃稚程 謝曉惠 林怡安
朱振飛 方宥儒 潘慈閔 林知慶 曾宜萱
俞學洋 蔡豐任 顏汝瑩



Ray Lee

張雅婷 黃兆嘉 黃競霆 林嘉誠 吳映柔
彭彥菱 賴柏顥 鍾承祖 黃文瑞 馮博凱
馮凱婷 陳筱涵 黃鈺雯



Yu-Ting Liu

林宏璠 陳俞誼 陳律捷 蔡豐安 曾迺苓
歐千華 王儀茹 鍾耘昇 李孟軒 張華容
楊翔竣 林均儒



Jennifer



Po-Nan



Yu-Tse



Ting-Wei



Te-Lin



Jerry



Tien-Ning



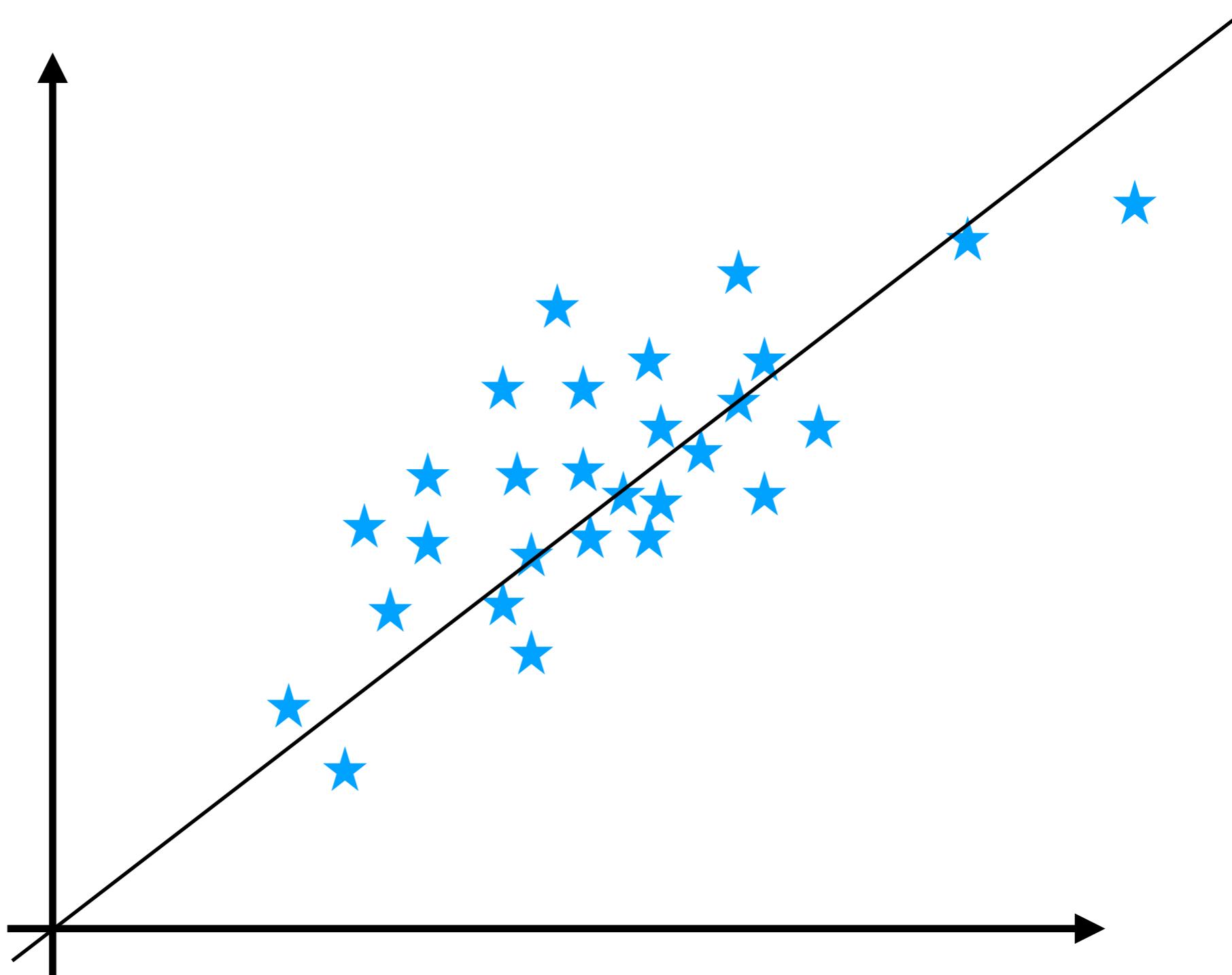
Rachel



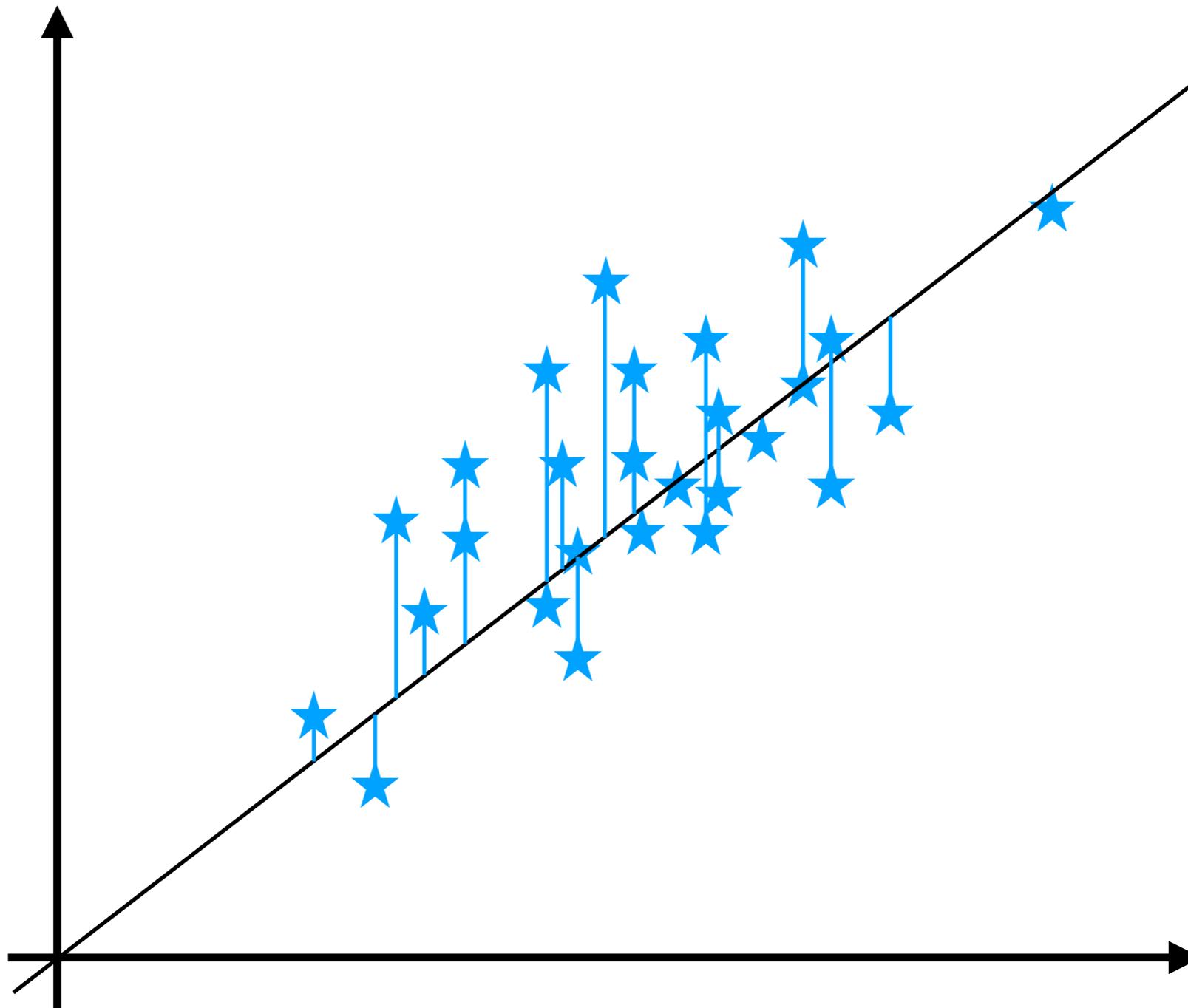
Chris

Machine Learning

$$Y = \theta X$$



$$Y = \theta X$$



$$J = \sum (Y - Y_i)^2 / 2m$$

$$Y = \theta_1 X$$

