Types of Machine Learning Day 5: Online ML -> River, Voupall Walnett for online-me Coython liberories learning Hate: Choosing how frequently to en potato. It's like doing the offline training (initial) in butches continuetype) Ly Risky Ly Mard to rollback L) Evals and data integrity checks - Dry 6! Instance Based vs Model Based (memorize) (generalizing) * Tratance Bosod = K Nearest Neighbours (no training or learning) But need data in inference Décision Function / Boundary. Don't need data in inference Problems in ML. 1. Data Collection APT or Webscraping

Insufficient/ tabelled When you have large data algorithm went matter much Non Representative Data . The Dota doesn't represent whole situation gris biased eg. wavey winning country of cricket only India This is called sampling noise? · Even though you callect all data thouse Even though & Sampling tias

till hidden bias => Sampling tias

(nationality of other ppl in County Poor Quality Data Truelevant Features Overfitting Software Integration Real-life Application (BZB) 10 my-8- Retail Camazon Association Rule Based Learning Court products Banking lovelation with defaulton bronsport Surge Pricing Manyactiving Predictive Maintanence X.com / Consumer Internet Sentiment Analysis Gilliam not go accorate (edge case) Hedion Brediction GSUL to stock ppl like JP Morgan

Youva TMP in practice Day-9 Machine Learning Dovelopment life Cycle 1. Frame the Problem. 2. Gather Data Dota -COV API Web Staping Data Wareho use Clustery extract transform Isad 3. <u>Data Preprocessing</u>

Remove Duplicates, missing values, outliers, scaleing (standardization) 4. Explanatory Data Analysis: · Vizualization, UniVariate Analysis, Bivavate, MultiVariate, & · Outlier Detection. · Handle Imtalance 5. Feature Eng. and Selection 6. Model Training, Evaluation and Selection · Hyper-parameter Tuning · Joining different models (Ensemble Leavining) J. Testing.
- Take feedback.

' A/B Testing. 8. Backup, Data, Load balancing, Re-timing

1. July 10		Paga Mo.:	
Aller .		Oste:	YOUVA
	1 and list = Jobs in Startup		
Angellist => Jobs in Startup Data Analyst Data Ergreen			
190	Tank and O' of	Engineer.	
	Dota Scientist ML	Engineer	
	One person doesn't do all 9 steps		
0	Engineer 9 - Street		
·	a TP		
	Maintaining it.		
·	Cleaning and Organizing Paw Data E Analyze data to dorive insight		
	Analyze data to derive insight		
	Creating data Visualization		
	Optimizing collection procedures		
	Optimizing collection procedures		
	· Scientist - Full Stack Cary, thinks Obout future		
	1 Use case (Poledictive modelling)		
	Use case (Predictive modelling) Main Groal		
	MI Fraincen : Small role		
	Deploying to production, Saling and optimizing to prod		
	Monitoring Maintoners		
P.11:	Taxana		
	ensers		
	OD Tensor /Scalar		
	Day 12: Setup Day 13: End-to-End Toy Project		
	P.T. 0		

Day 14: 1) Business Problem to ML.

Stop leaving customers > Common rate

(rasmany consumers leave per unit sing)

Big picture -> find out who's leaving

discount what issue?

probability

g leaving a discount Day 15: Data gothering with CSV.