	SMGT 432: Validation & Regularization Lecture
	Announcements
1.	Monday will feature guest speakers from Rice Soccer
2.	Reading #2 has been posted (due Wednesday)
3.	Reading #2 has been posted (due Wednesday) What IDEs did you all use last Pyday?
	Bring up the questions from last lecture.
	Questions
1.	What is the benefit of regularization in a regression model?
\{2.	What are the tradeoffs when choosing 2 in ridge regression?
3.	What are the tradeoffs when choosing I in ridge regression? What are the tradeoffs when choosing K in K-fold cross validation?
teste con	Hower Volidation and men wast
	Pause What if we just calculate in \(\subseteq \log(\hat{\hat{p}}\)?
	Validation (Pyday:)
	0.68
	50%
	tool Train Test
	Model Test from Pyday:
	1 65 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Pause How do you choose how much data to hold out for the
the blest et ata.	test set? what if you hold out too little? Too much?
	٥
	Coss-Validation.
	Regularization "Lblo-" I oto: otob tilge !
	L. For fach told it:
	a, B = arg min -l (a, B; X, y) + 2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
7 '-	who as Earth would you do this
V	Pause What is 7! What if it's zero? Infinity?
	3. ColoQuite average enor across tolds

