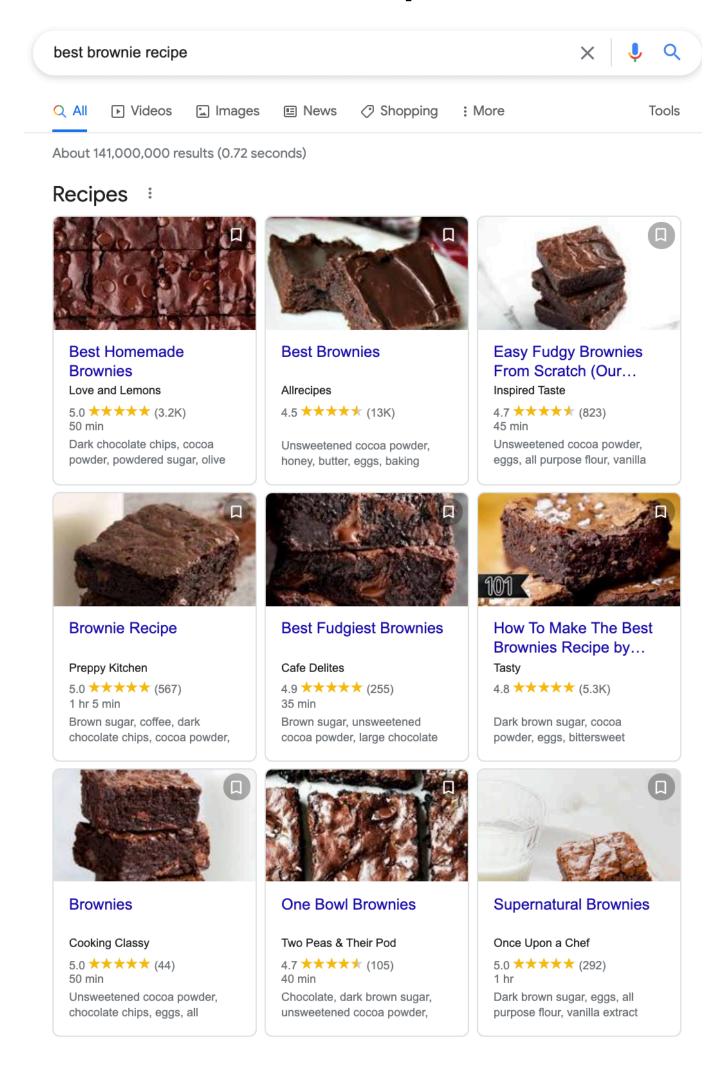
A myriad of data exists online in the space of recipes + ratings

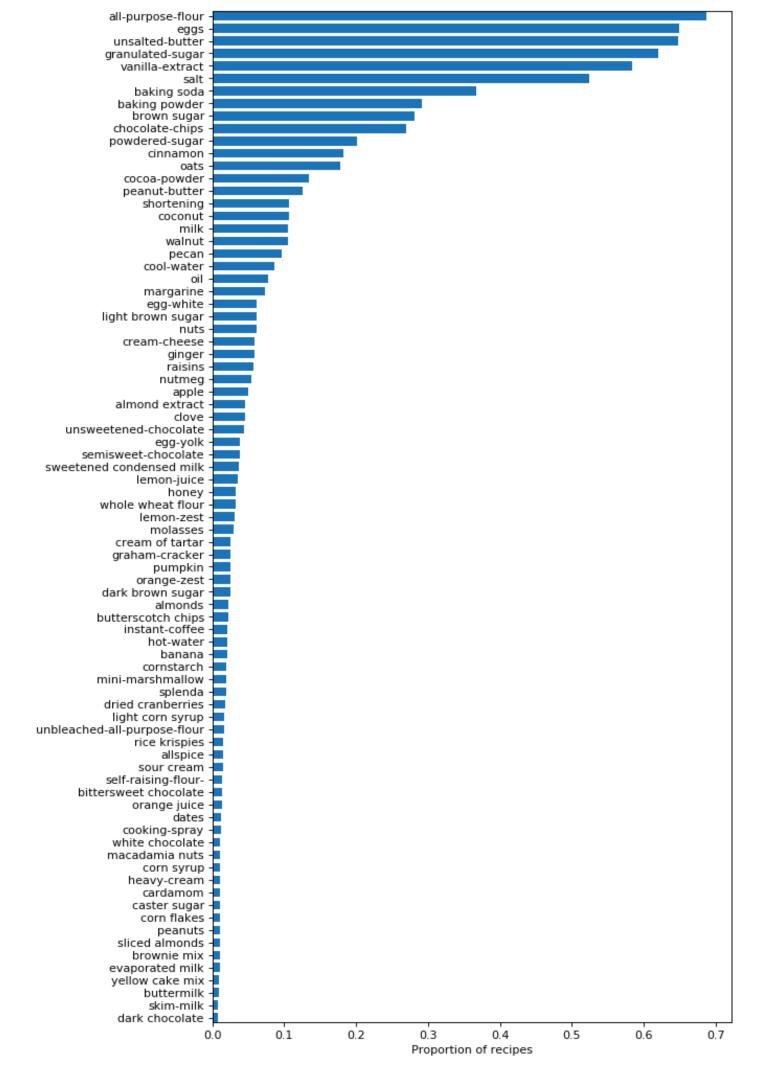


A myriad of data exists online in the space of recipes + ratings

- Could data science approaches be used to improve recipe development?
- Idea: build a tool that provides suggestions for recipe enhancement using existing corpus of recipes + user ratings
- Purpose: use by recipe hosting websites (food.com) to offer users suggestions on how to improve their recipe

Mechanics: Use data on recipes + ratings from food.com on Kaggle

	name	id	minutes	contributor_id	submitted	tags	nutrition	n_steps	steps	description	ingredients	n_ingredients
30	get the sensation brownies	27087	70	37305	2002-05- 03	['weeknight', 'time-to- make', 'course', 'main	[174.4, 13.0, 67.0, 5.0, 4.0, 26.0, 7.0]	11	['preheat oven to 350 degrees', 'grease 13 x 9	a yummy thick chocolate mint brownie from york	['butter', 'sugar', 'vanilla', 'eggs', 'all-pu	9
72	one pot brownies	32271	40	41809	2002-06- 25	['60-minutes- or-less', 'time- to-make', 'course	[1389.5, 129.0, 410.0, 26.0, 42.0, 211.0, 51.0]	8	['melt chocolate and butter in heavy pot', 'le	this recipe was submitted by mrs. stuart padno	['unsweetened chocolate squares', 'butter', 's	7
94	symphony brownies	44895	45	51224	2002-10- 29	['60-minutes- or-less', 'time- to-make', 'course	[5728.3, 470.0, 1941.0, 87.0, 140.0, 443.0, 22	10	['preheat oven to 350 degrees , or 325 degrees	а	['betty crocker fudge brownie mix', 'eggs', 'w	5
103	turtle squares	58651	30	35635	2003-04- 07	['30-minutes- or-less', 'time- to-make', 'course	[172.4, 16.0, 51.0, 1.0, 2.0, 26.0, 6.0]	15	['preheat oven to 350 degrees f', 'spray a 13 	for lovers of pecans and chocolate	['flour', 'brown sugar', 'butter', 'pecans', '	5
111	1 brownies in the world best ever	333281	40	985201	2008-10- 27	['60-minutes- or-less', 'time- to-make', 'course	[138.4, 10.0, 50.0, 3.0, 3.0, 19.0, 6.0]	10	['heat the oven to 350f and arrange the rack i	these are the most; chocolatey, moist, rich, d	['bittersweet chocolate', 'unsalted butter', '	9



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 - Build predictive models to assess which ingredients are associated with recipe ratings
- Case study: *Brownie* recipes (N = 12,440; N = 515 with at least 20 reviews)
 - Data cleaning: combining redundant ingredients (e.g. all-purpose flour, flour, white flour, etc.)

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- Presence of unique ingredients accounts for ~25% of variance in recipe ratings

