

Projektni prijedlog prezentacija

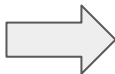
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Opis problema

- klasifikacija recepata po zemlji iz koje dolazi pomoću sastojaka

Međimurska gibanica

- Phyllo dough sheets
- Ground poppy seeds
- Ground walnuts
- Fresh/farmers cheese
- apples
- eggs
- milk
- granulated sugar
- cinnamon, vanilla extract and spiced rum (optional)
- grated lemon zest
- unsalted butter



Carbonara

- kosher salt, plus more
- 4 oz. guanciale (salt-cured pork jowl), pancetta (Italian bacon), or bacon
- 2 oz. Parmesan
- 4 large egg yolks
- 2 large eggs
- Freshly ground black pepper
- 2 Tbsp. extra-virgin olive oil
- 1 lb. spaghetti, bucatini, or rigatoni



- 39 774 recepata
- 6 532 različitih sastojaka (zapravo manje)
- 20 država



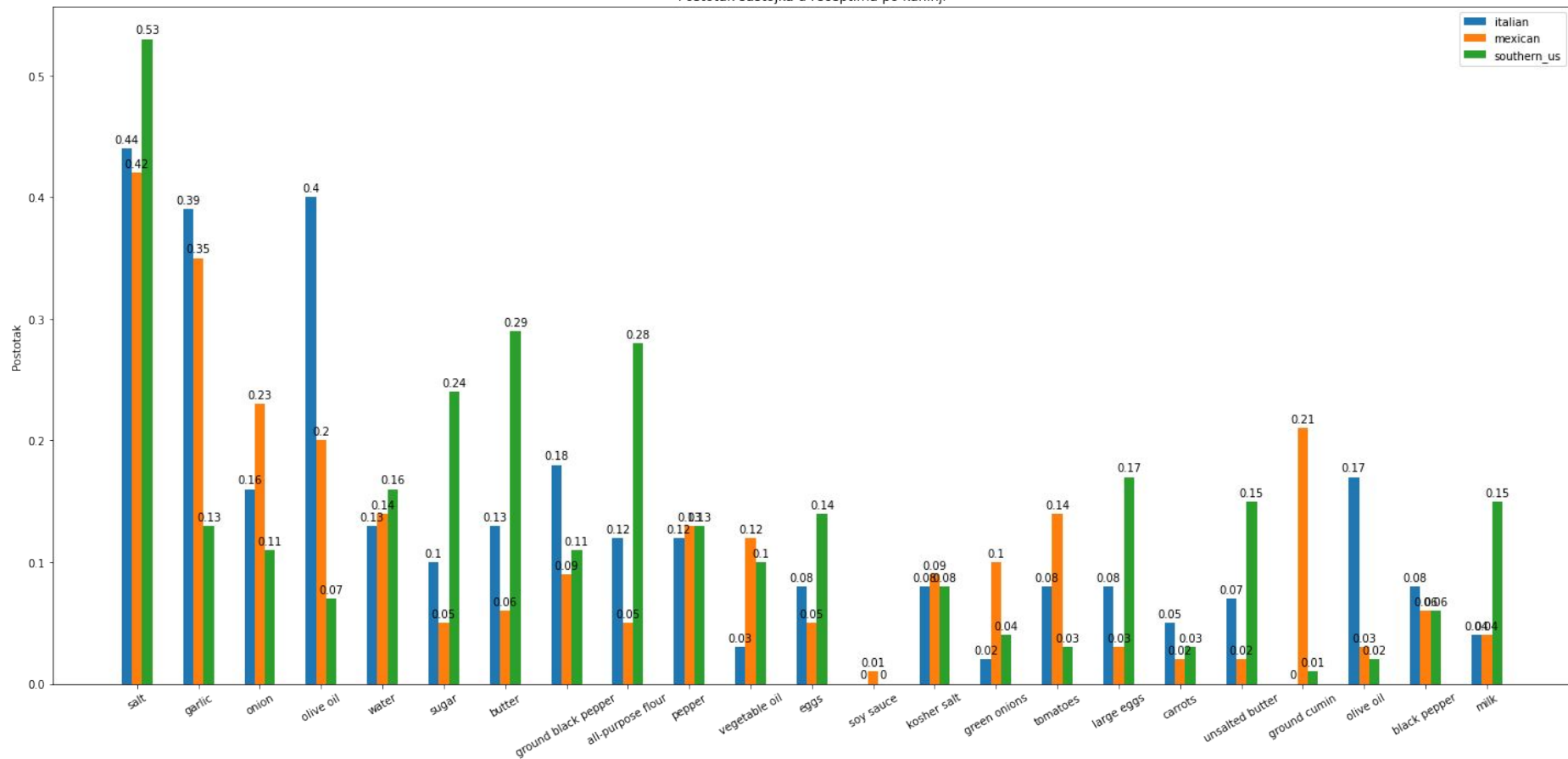
	cuisine	ingredients
0	greek	[romaine lettuce, black olives, grape tomatoes, garlic, pepper, purple onion, seasoning, garbanzo beans, feta cheese crumbles]
1	southern_us	[plain flour, ground pepper, salt, tomatoes, ground black pepper, thyme, eggs, green tomatoes, yellow corn meal, milk, vegetable oil]
2	filipino	[eggs, pepper, salt, mayonaise, cooking oil, green chilies, grilled chicken breasts, garlic powder, yellow onion, soy sauce, butter, chicken livers]
3	indian	[water, vegetable oil, wheat, salt]
4	indian	[black pepper, shallots, cornflour, cayenne pepper, onions, garlic paste, milk, butter, salt, lemon juice, water, chili powder, passata, oil, ground cumin, boneless chicken skinless thigh, garam m...
5	jamaican	[plain flour, sugar, butter, eggs, fresh ginger root, salt, ground cinnamon, milk, vanilla extract, ground ginger, powdered sugar, baking powder]
6	spanish	[olive oil, salt, medium shrimp, pepper, garlic, chopped cilantro, jalapeno chilies, flat leaf parsley, skirt steak, white vinegar, sea salt, bay leaf, chorizo sausage]
7	italian	[sugar, pistachio nuts, white almond bark, flour, vanilla extract, olive oil, almond extract, eggs, baking powder, dried cranberries]
8	mexican	[olive oil, purple onion, fresh pineapple, pork, poblano peppers, corn tortillas, cheddar cheese, ground black pepper, salt, iceberg lettuce, lime, jalapeno chilies, chopped cilantro fresh]
9	italian	[chopped tomatoes, fresh basil, garlic, extra-virgin olive oil, kosher salt, flat leaf parsley]

- Kaggle natjecanje “What’s Cooking?”

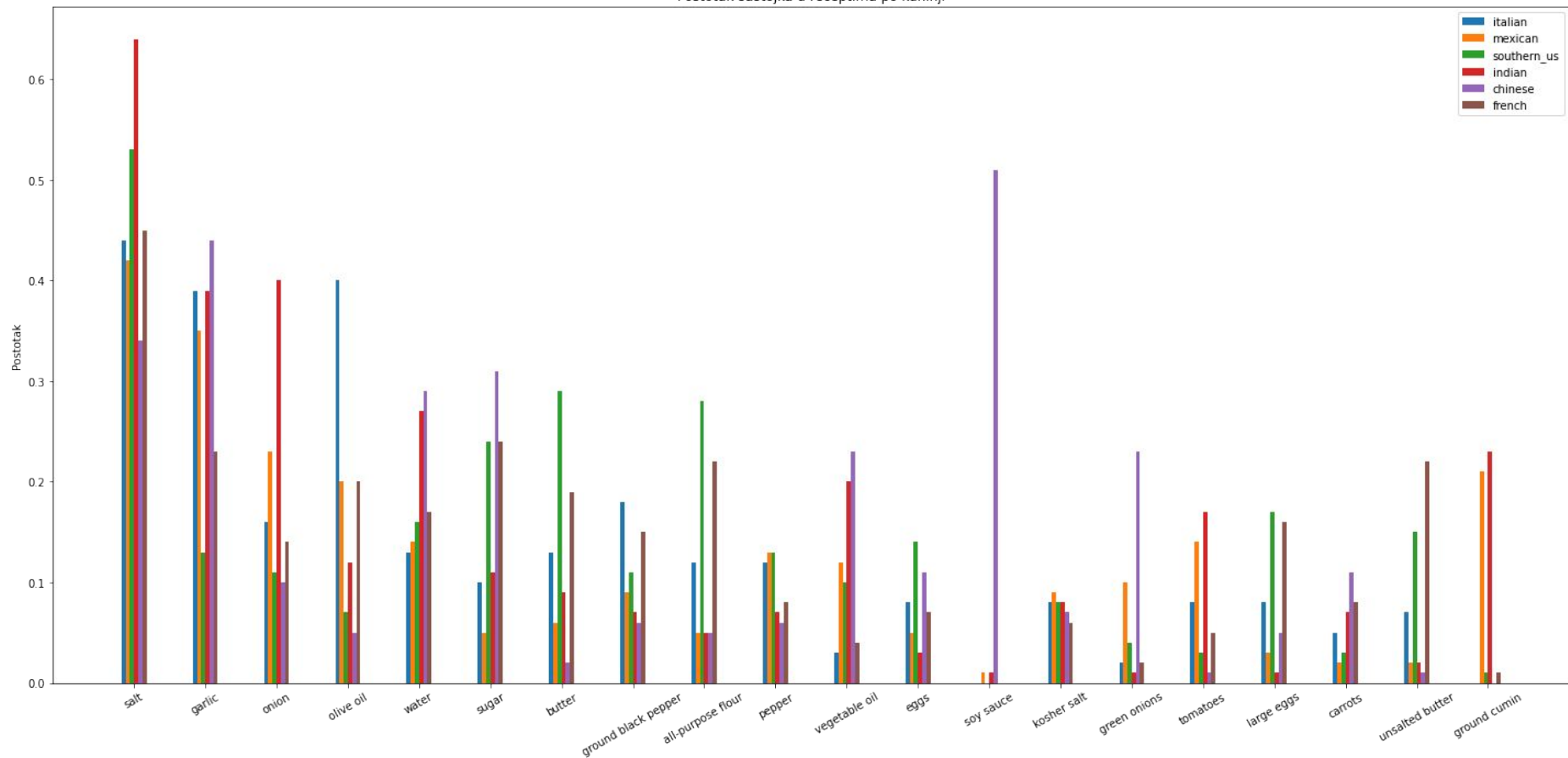
Cilj projekta

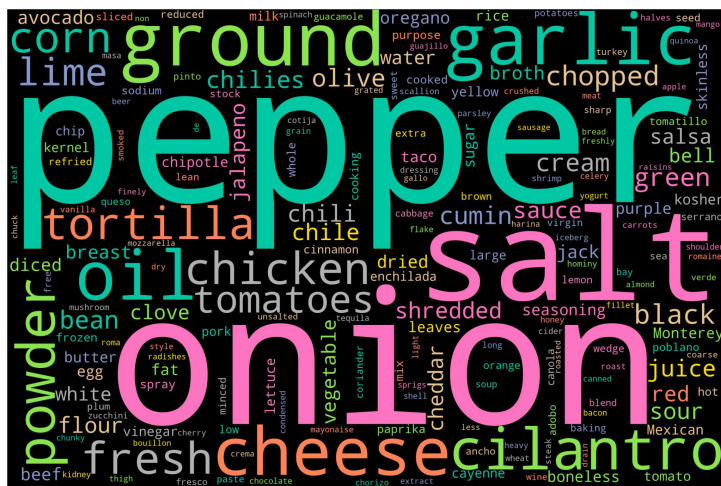
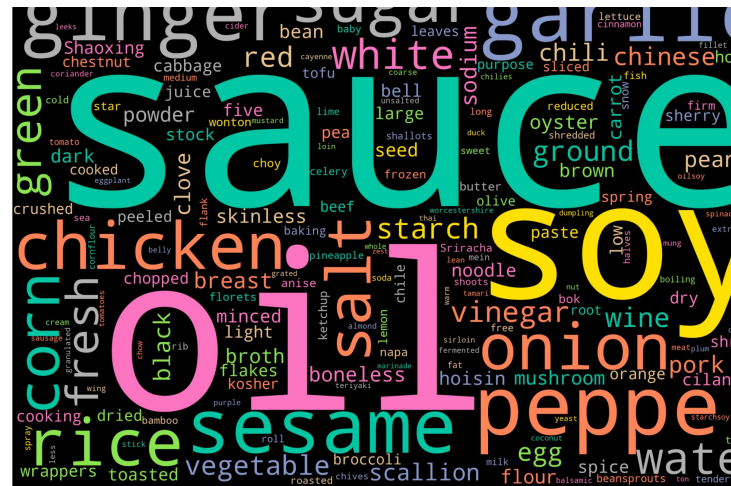
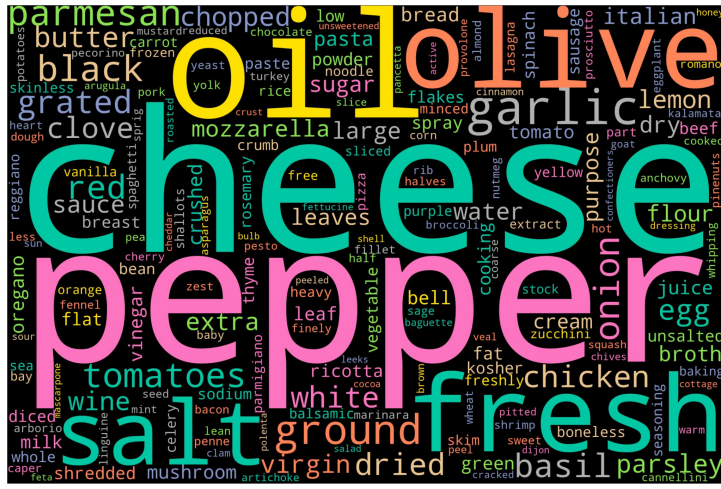
- napraviti što bolji klasifikator recepata po zemlji iz koje dolaze
 - bag-of-words, tf-idf pristupi
 - k-means, naivni Bayes, RandomForrest, SVM, XGBoost
 - smanjenje dimenzije pomoću PCA, t-SNE i sličnih metoda
- istražiti koja kombinacija sastojaka prevladava u kuhinji iz koje je država
- otkriti koje kuhinje su slične

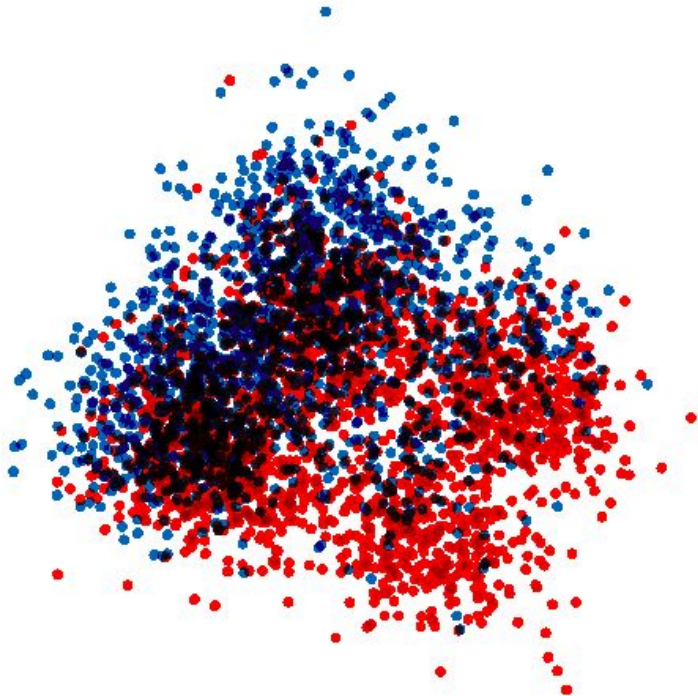
Postotak sastojka u receptima po kuhinji



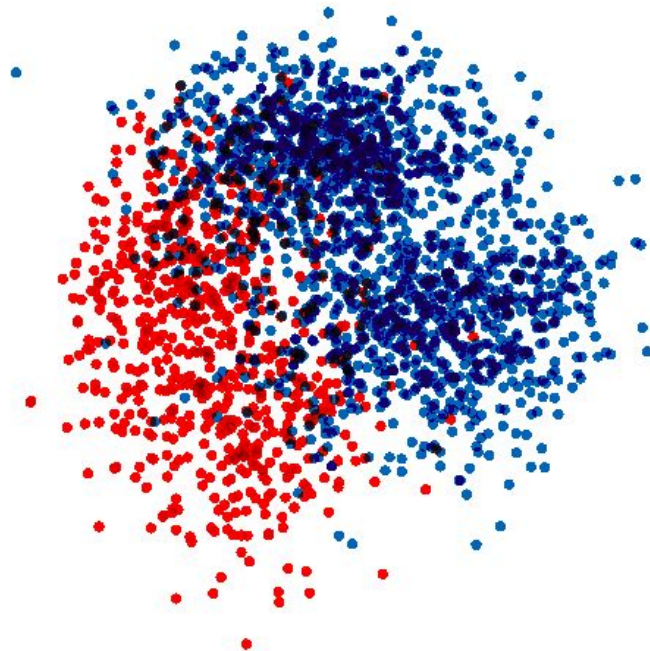
Postotak sastojka u receptima po kuhinji





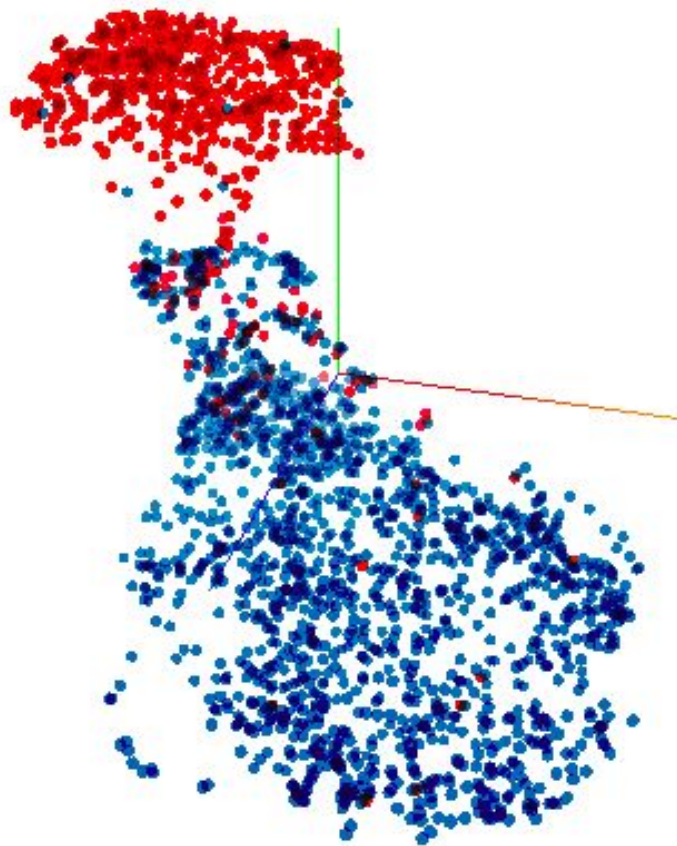


VS



VS





VS



Izvori

- <https://biteitquick.com/medjimurska-gibanica-medjimurijan-layer-cake/>
- <https://www.bonappetit.com/recipe/simple-carbonara>
- <https://www.kaggle.com/c/whats-cooking/overview>
- <https://projector.tensorflow.org>