

Plants

PRI - Information Processing and Retrieval (2023/2024)

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Initial Dataset

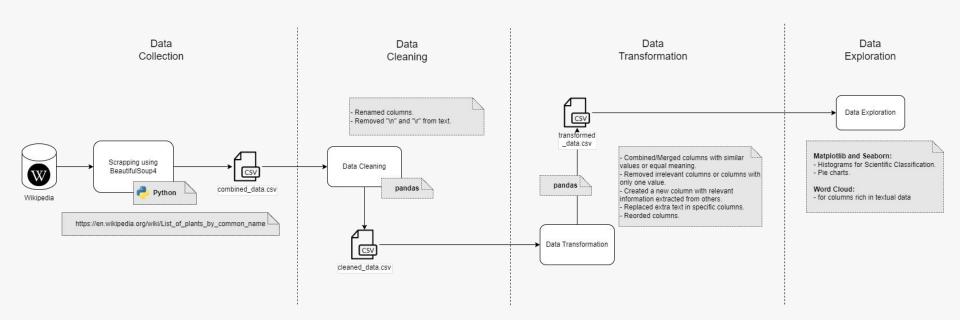




Web Data Scrapping combined_data.csv

403 rows 178 columns

Pipeline



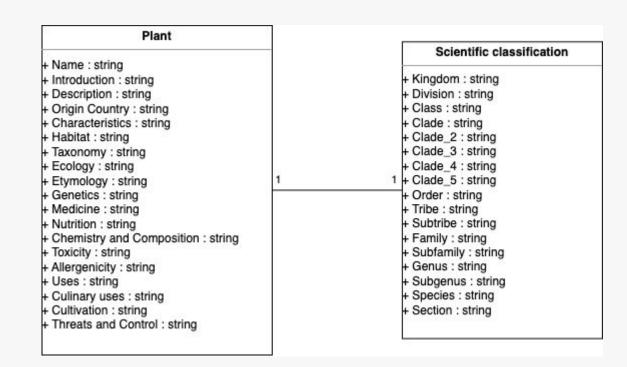
Final Dataset

Name	Betula Nigra
Species	B. Nigra
Kingdom	Plantae
Clade	Tracheophytes
Clade_2	Angiosperms
Clade_3	Eudicots
Clade_4	Rosids
Order	Fagales
Family	Betulaceae
Genus	Betula

Subgenus	Betula subg. Neurobetula
Introduction	Betula nigra, the black birch, river birch or
Description	Betula nigra is a deciduous tree growing to 25
Ecology	In states in which mining is prevalent, the ri
Taxonomy	Betula nigra is a tree that falls into the fam
Uses	While its native habitat is wet ground, it wil

Habitat	The river birch is often found in low-elevation
Cultivation	While its native habitat is wet ground, it wil
Threats and Control	It is listed as threatened in New Hampshire.

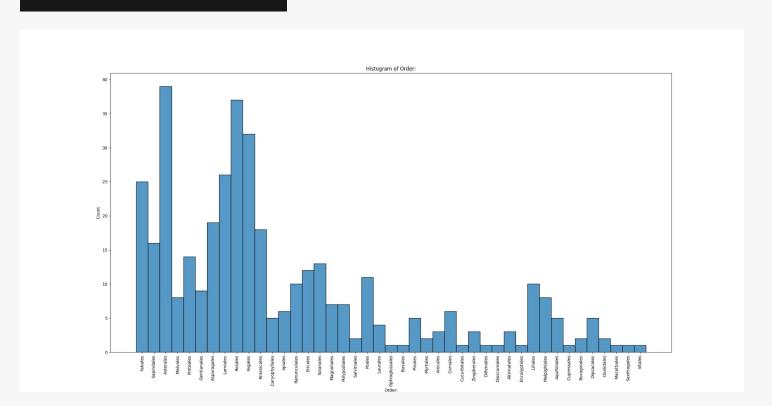
Conceptual Diagram



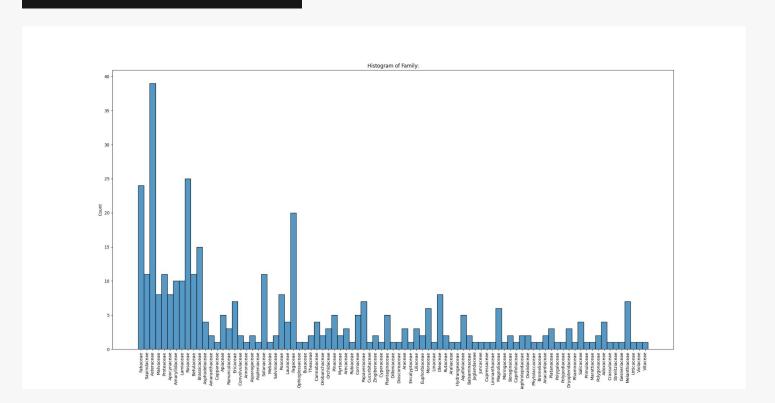
Count of unique values in each column:

Designation	Count
Kingdom	1 (Plantae)
Clade	1 (Tracheophytes)
Order	43
Family	87
Genus	203
Species	299

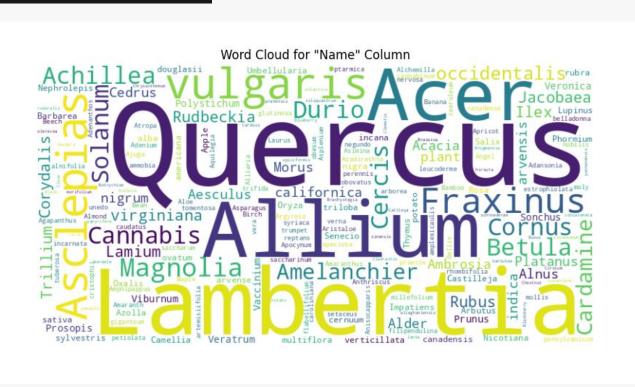
Histogram for the column 'Order':



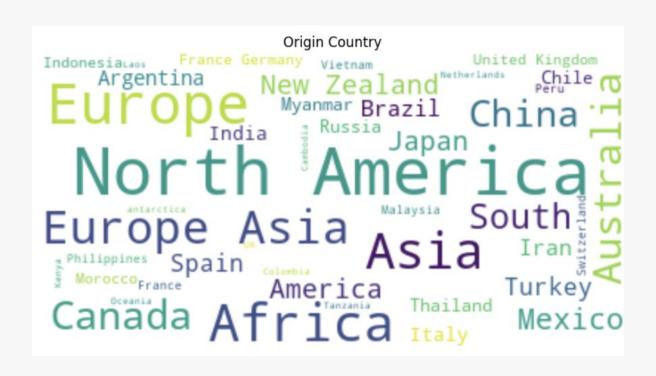
Histogram for the column 'Family':



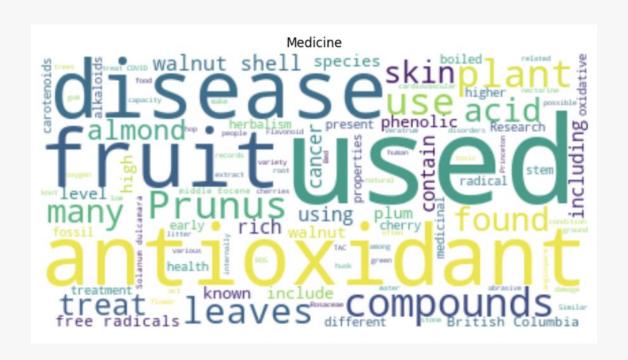
Word cloud for the column 'Name':



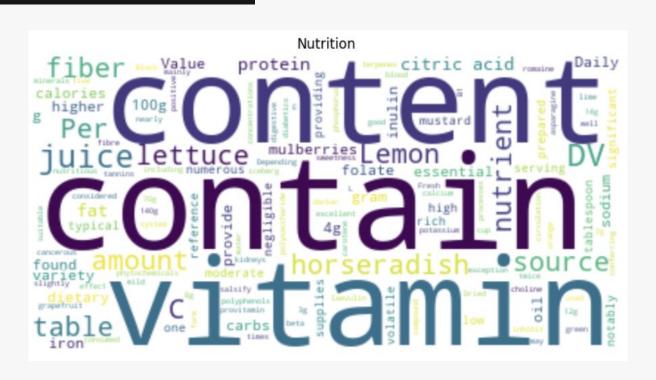
Word cloud for the column 'Country Origin':



Word cloud for the column 'Medicine':



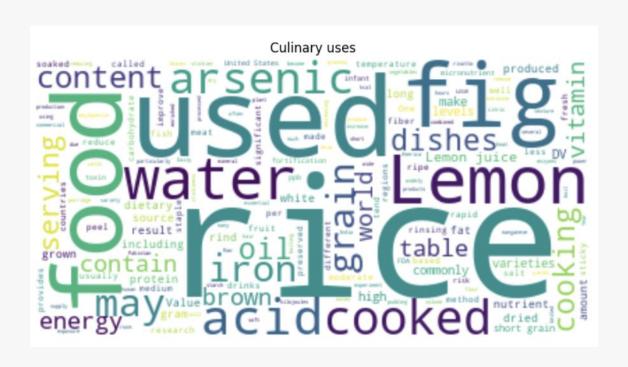
Word cloud for the column 'Nutrition':



Word cloud for the column 'Allergenicity':



Word cloud for the column 'Culinary Uses':

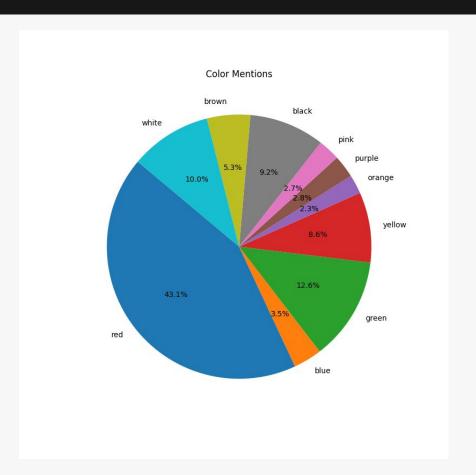


Number of mentions of colors:

01. Red

O2. Green

O3. White



Search Scenarios



Interest in plants with medicinal properties.

- "Medicinal properties of Aloe Vera"
- "What plants are used in herbal medicine?"



Interest in learning about a plant's toxicity.

- "Which plants are toxic?"
- "Toxicity in Poison Ivy."



Interest in finding out where a plant is from.

- "Where do Tulips originate from?"
- "Plants native to Japan."



Interest in learning which plants are edible.

- "Edible flowers."
- "Herbs for cooking."

Future Work

Milestone #2



Review Milestone #1



Analysis of the document



Information Retrieval



Evaluate results

Thank You!

T01G15

Bárbara Rúben Sofia Tiago