

PRÀCTICA 3

PROGRAMACIÓ D'IA

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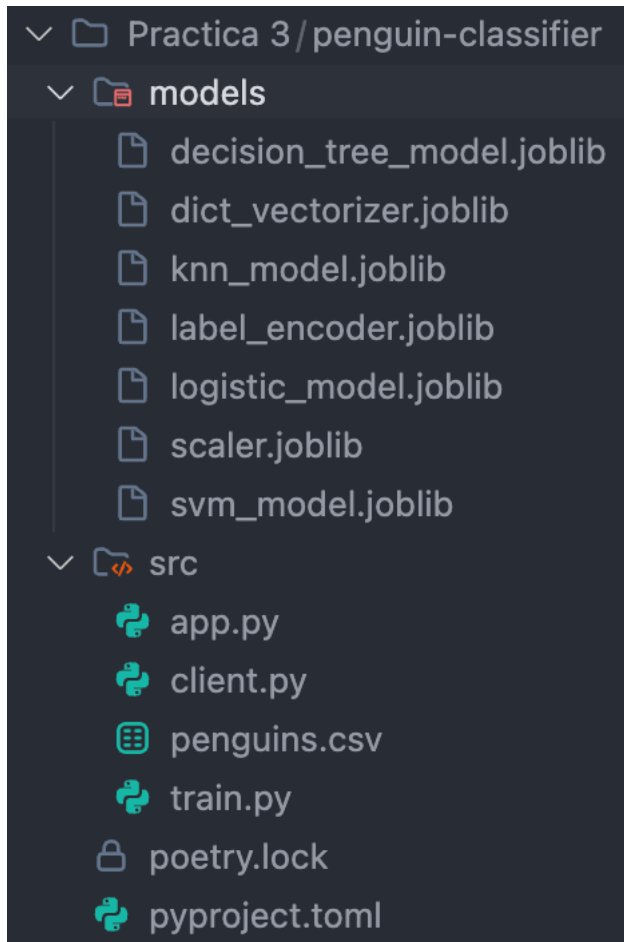
ÍNDEX

<i>Enllaç github:</i>	2
<i>Estructura del projecte:</i>	2
<i>Contingut del pyproject.toml</i>	3
<i>Execució</i>	4

Enllaç github:

<https://github.com/Jordiop/iedib/tree/master/Programaci%C3%B3%20d'IA/Practica%203/penguin-classifier>

Estructura del projecte:



Contingut del pyproject.toml

```
[tool.poetry]
name = "penguin-classifier"
version = "0.1.0"
description = "Penguin classifier"
authors = ["jordi"]
readme = "README.md"

[tool.poetry.dependencies]
python = "^3.11"
pandas = "^2.0.0"
scikit-learn = "^1.0.0"
seaborn = "^0.12.0"
flask = "^2.0.0"
requests = "^2.28.0"
numpy = "^1.21.0"
flask-cors = "^5.0.0"

[tool.poetry.dev-dependencies]
pytest = "^7.0.0"
jupyter = "^1.0.0"
black = "^22.0.0"

[build-system]
requires = ["poetry-core"]
build-backend = "poetry.core.masonry.api"
```

Execució

```
➔ penguin-classifier git:(master) poetry run python src/client.py
Starting predictions...

=====

LOGISTIC Prediction:
Input: {
  "island": "Biscoe",
  "bill_length_mm": 50.0,
  "bill_depth_mm": 15.0,
  "flipper_length_mm": 220,
  "body_mass_g": 5000,
  "sex": "Male"
}
Predicted species: Gentoo

SVM Prediction:
Input: {
  "island": "Biscoe",
  "bill_length_mm": 50.0,
  "bill_depth_mm": 15.0,
  "flipper_length_mm": 220,
  "body_mass_g": 5000,
  "sex": "Male"
}
Predicted species: Gentoo

DECISION_TREE Prediction:
Input: {
  "island": "Biscoe",
  "bill_length_mm": 50.0,
  "bill_depth_mm": 15.0,
  "flipper_length_mm": 220,
  "body_mass_g": 5000,
  "sex": "Male"
}
Predicted species: Gentoo

KNN Prediction:
Input: {
  "island": "Biscoe",
  "bill_length_mm": 50.0,
  "bill_depth_mm": 15.0,
  "flipper_length_mm": 220,
  "body_mass_g": 5000,
  "sex": "Male"
}
Predicted species: Gentoo

=====
```

LOGISTIC Prediction:

```
Input: {  
  "island": "Dream",  
  "bill_length_mm": 35.0,  
  "bill_depth_mm": 17.0,  
  "flipper_length_mm": 185,  
  "body_mass_g": 3400,  
  "sex": "Female"  
}
```

Predicted species: Adelie

SVM Prediction:

```
Input: {  
  "island": "Dream",  
  "bill_length_mm": 35.0,  
  "bill_depth_mm": 17.0,  
  "flipper_length_mm": 185,  
  "body_mass_g": 3400,  
  "sex": "Female"  
}
```

Predicted species: Adelie

DECISION_TREE Prediction:

```
Input: {  
  "island": "Dream",  
  "bill_length_mm": 35.0,  
  "bill_depth_mm": 17.0,  
  "flipper_length_mm": 185,  
  "body_mass_g": 3400,  
  "sex": "Female"  
}
```

Predicted species: Adelie

KNN Prediction:

```
Input: {  
  "island": "Dream",  
  "bill_length_mm": 35.0,  
  "bill_depth_mm": 17.0,  
  "flipper_length_mm": 185,  
  "body_mass_g": 3400,  
  "sex": "Female"  
}
```

Predicted species: Adelie

→ [penguin-classifier git:\(master\)](#) ■