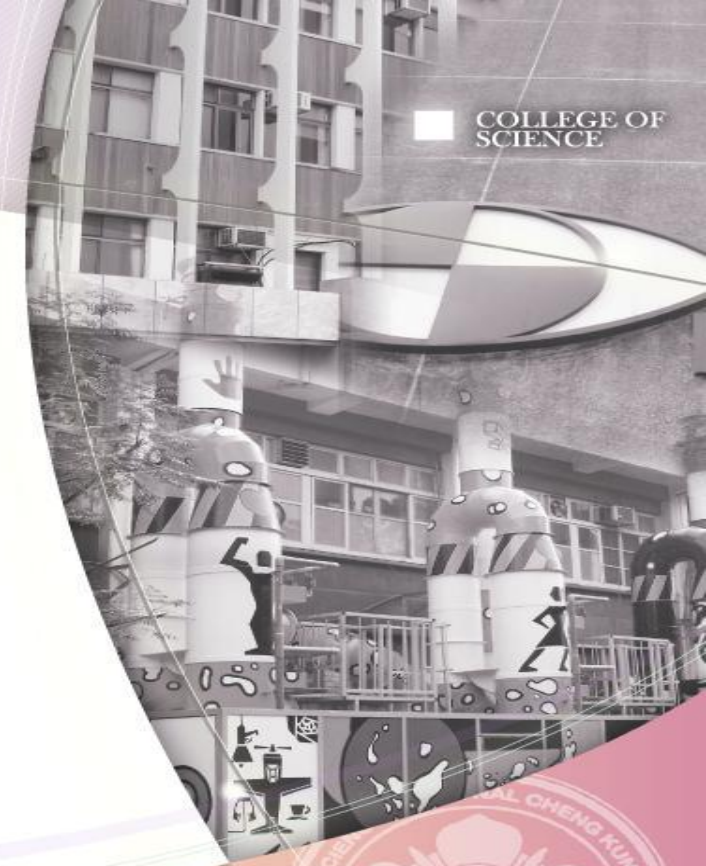


# Keras Tutorial

NCKU IKMLAB

# DataSet

- **pokemon go !**

| latitude | longitude | local.month | local.day | local.hour | local.minute | local.second | appeared |
|---|---|---|---|---|---|---|---|
| 0.00475103051011157 | -0.617821413204522 | 9 | 8 | 2 | 51 | 33 | 4 |
| 0.073256762279691 | -0.703223091694273 | 9 | 8 | 2 | 50 | 45 | 4 |
| 0.00116701071315249 | -0.612492067961319 | 9 | 8 | 2 | 37 | 31 | 4 |
| 0.208499147117112 | -0.532359006212283 | 9 | 8 | 2 | 34 | 37 | 4 |
| -0.297791610931738 | -0.640406525777174 | 9 | 8 | 2 | 34 | 6 | 4 |
| -0.297866188703471 | -0.640410457625002 | 9 | 8 | 2 | 28 | 17 | 4 |
| -0.297743810690644 | -0.640398647244357 | 9 | 8 | 2 | 23 | 7 | 4 |

出沒地點　出沒時間　出沒時長　氣溫　天氣　氣壓　地形

⋮

# DataSet (cont.)

- total 151 species.

One-hot encoding !

| cooc_1 | cooc_2 | cooc_3 | cooc_4 | cooc_5 | cooc_6 | cooc_7 |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |

...

| cooc_147 | cooc_148 | cooc_149 | cooc_150 | cooc_151 |
|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |

**0** : not this species.
**1** : be this species.

# DataSet (cont.)

- Our main goal is to **predict that pokemon belong to which one class in 5 labels.**

| class |
| --- |
| 1 |
| 0 |
| 1 |
| 1 |
| 4 |
| 3 |
| 4 |

e.g.,

| label | description |
| --- | --- |
| 0 | 火系 |
| 1 | 水系 |
| 2 | 草系 |
| 3 | 電系 |
| 4 | 土系 |

# Let's try it !