

Développement d'une application LUIS



- Entraîner et déployer un modèle LUIS

Environnement de travail



Langage Understanding

Les dialogues

user : I'd like to book a trip to Atlantis from Caprica on Saturday, August 13, 2016 for 8 adults. I have a tight budget of 1700.

wizard : Hi...I checked a few options for you, and unfortunately, we do not currently have any trips that meet this criteria. Would you like to book an alternate travel option?

user : Yes, how about going to Neverland from Caprica on August 13, 2016 for 5 adults. For this trip, my budget would be 1900.

wizard : I checked the availability for this date and there were no trips available. Would you like to select some alternate dates?

user : I have no flexibility for dates... but I can leave from Atlantis rather than Caprica. How about that?

wizard : I checked the availability for that date and there were no trips available. Would you like to select some alternate dates?

user : I suppose I'll speak with my husband to see if we can choose other dates, and then I'll come back to you. Thanks for your help

```
{"user_id": "U22HTHYNP", "turns": [{"text": "I'd like to book a trip to Atlantis from Caprica on Saturday, August 13, 2016 for 8 adults. I have a tight budget of 1700.", "labels": {"acts": [{"args": [{"val": "book", "key": "intent"}]}, {"name": "inform"}, {"args": [{"val": "Atlantis", "key": "dst_city"}, {"val": "Caprica", "key": "or_city"}, {"val": "Saturday, August 13, 2016", "key": "str_date"}, {"val": "8", "key": "n_adults"}, {"val": "1700", "key": "budget"}]}], "name": "inform"}]}
```

Author

Text

Labels : intent & entities

```
[ { "args": [ { "val": "book", "key": "intent" } ], "name": "inform" }, { "args": [ { "val": "Atlantis", "key": "dst_city" }, { "val": "Caprica", "key": "or_city" }, { "val": "Saturday, August 13, 2016", "key": "str_date" }, { "val": "8", "key": "n_adults" }, { "val": "1700", "key": "budget" } ], "name": "inform" } ]
```

Intent : book , None

Entités :

or_city : ville d'origine

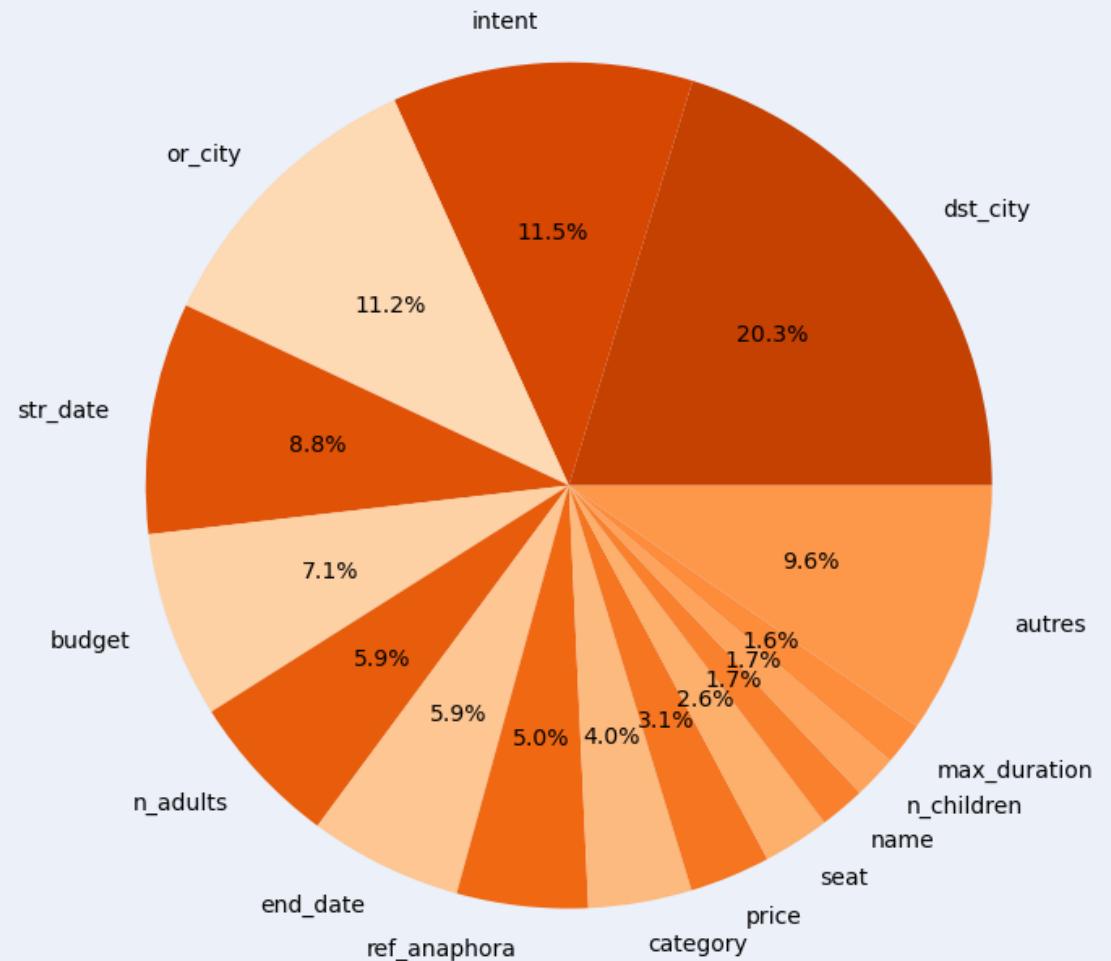
dst_city : ville de destination

str_date : date de départ

end_date : date de retour

budget : budget du voyage

Répartition des 15 étiquettes les plus répandues dans les dialogues

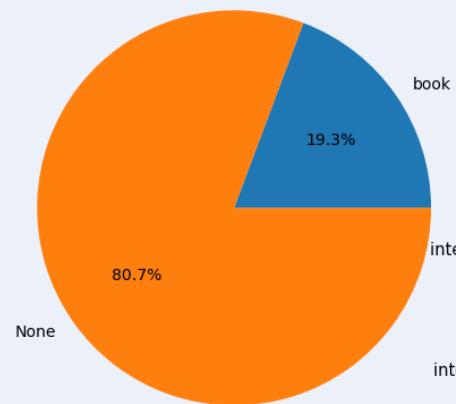


Notre modèle LUIS

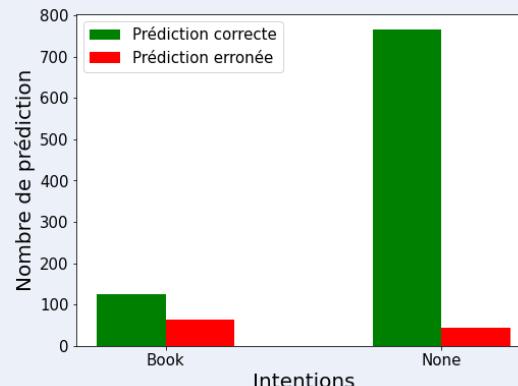
Accuracy = 0.89

Recall = 0.66

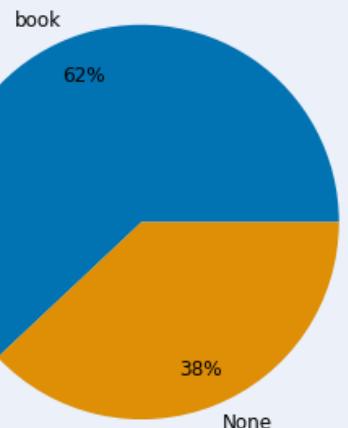
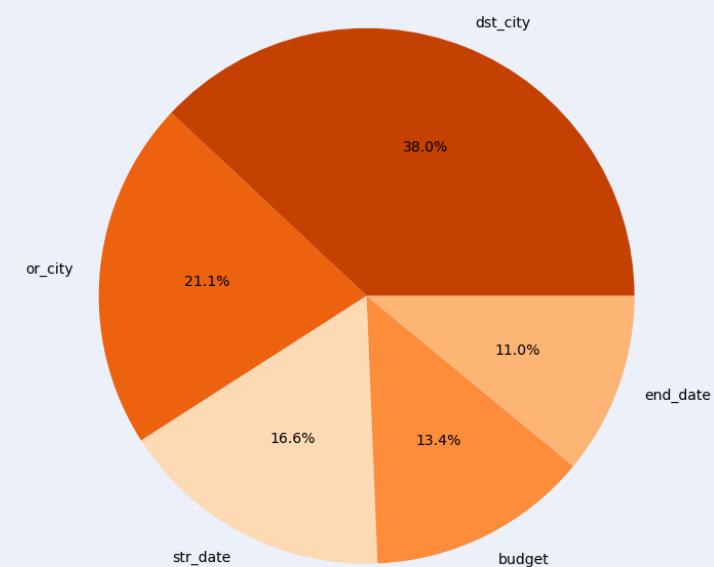
Precision = 0.74



true intention 'None'		true intention 'book'	
predicted intention 'None'	765	predicted intention 'book'	44
predicted intention 'None'	64	predicted intention 'book'	126



Répartition de nos entités dans les dialogues user

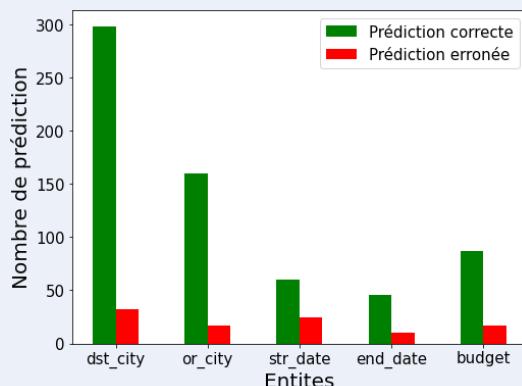
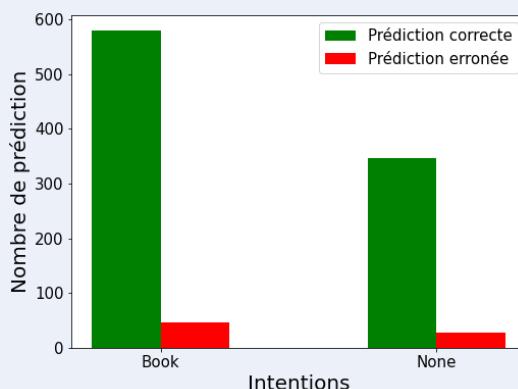


Accuracy = 0.93

Recall = 0.93

Precision = 0.96

true intention 'None'		true intention 'book'	
predicted intention 'None'	347	predicted intention 'book'	27
predicted intention 'None'	46	predicted intention 'book'	579



La précision sur les entités : 0.87

Compétences



Exploration et extraction des données



Etablissement d'un modèle LUIS et déploiement du modèle



Création de pipelines pour l'entraînement et le test du modèle LUIS