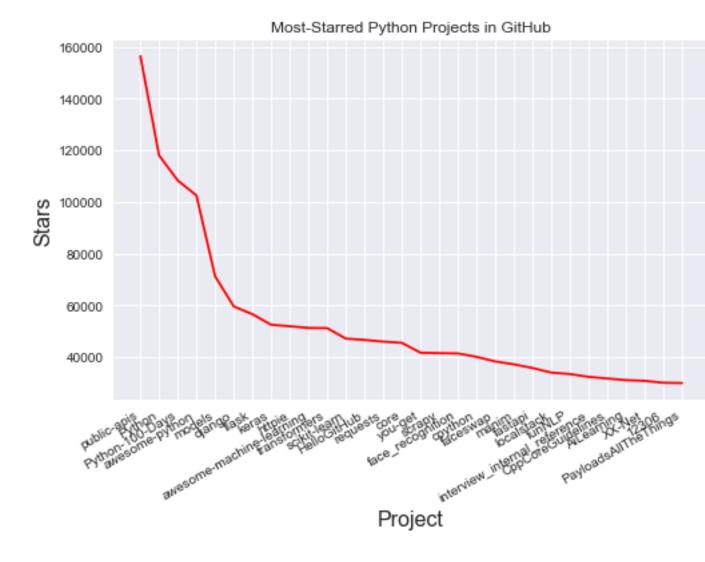
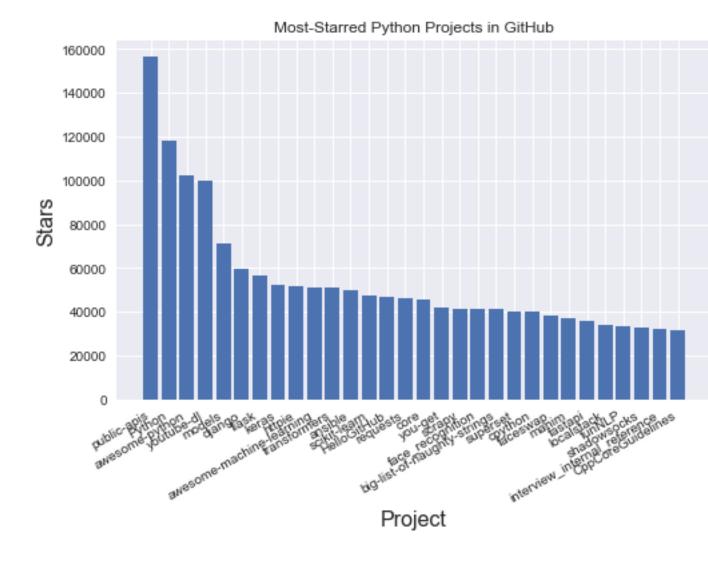
Тема 2.3.2. Визуализация данных, полученных в результате вызова АРІ

```
#Создание вызова АРІ и сохранение ответа
url = 'https://api.github.com/search/repositories?q = language:python&sort =
stars'
headers = {'Accept':'application/vnd.github.v3+json'}
r = requests.get(url,headers = headers)
print(f"Status code:{r.status_code}") # Status code:200
# Сохранение ответа API в переменной response dict
response dict = r.json()
repo dicts = response dict['items']
print(f"Repositories returned:{len(repo dicts)}")
# Формирование массивов данных для визуализации (массивы repo names,
stars
repo_names,stars = [], []
for repo dict in repo dicts:
  repo names.append(repo dict['name'])
  stars.append(repo dict['stargazers count'])
# визуализация с помощью Plotly
import plotly
import plotlywidget
from plotly.graph_objs import bar
from plotly import offline
data = [{
```

```
'type':'bar',
    'x':repo_names,
    'y':stars,
}]
my_layout = {
  'title':'Most-Starred Python Projects jn GitHub',
  'xaxis':{'title':'Repository'},
  'yaxis':{'title':'Stars'},
}
fig = {'data':data, 'layout':my layout}
offline.plot(fig,filename = 'python_repos.html')
# визуализация с помощью Matplotlib
from matplotlib import pyplot as plt
plt.style.use('seaborn')
fig,ax = plt.subplots()
ax.plot(repo_names, stars, c = 'red')
plt.title('Most-Starred Python Projects in GitHub')
plt.xlabel('Project', fontsize = 16)
plt.ylabel('Stars', fontsize = 16)
fig.autofmt xdate()
```



plt.bar(repo_names, stars)



ax.plot(repo_names, stars, c = 'red')
plt.bar(repo_names, stars)

