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import pandas as pd
import tensorflow_probability as tfp
import matplotlib.pyplot as plt
from matplotlib.ticker import PercentFormatter
from matplotlib import pyplot as plt

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```

TechSkills = pd.read_csv("/content/sample_data/TechSkills.csv")
print(TechSkills)

```

	reason	description \
0	Microsoft Office	Office suite software
1	Microsoft Outlook	Electronic mail software
2	Microsoft PowerPoint	Presentation software
3	Microsoft Project	Project management software
4	Microsoft SharePoint	Project management software
5	Microsoft SQL Server	Data base user interface and query software
6	Microsoft Visio	Graphics or photo imaging software
7	Google AdWords	Sales and marketing software
8	Google Analytics	Data mining software
9	Google Docs	Word processing software
10	Google Drive	Office suite software
11	Microsoft Excel	Spreadsheet software
12	Microsoft Office	Office suite software
13	Microsoft PowerPoint	Presentation software
14	Microsoft Project	Project management software

	frequency
0	9
1	8
2	10
3	10
4	8
5	7
6	9
7	8
8	7
9	9
10	25
11	13
12	24
13	10
14	13

```

TechSkills.index = TechSkills['reason']
TechSkills = TechSkills.sort_values(by='frequency', ascending=False)

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TechSkills["cumulativePercentage"] = TechSkills["frequency"].cumsum()/TechSkills["frequency"]
TechSkills["cumulativePercentage"] = TechSkills["cumulativePercentage"].apply(lambda x: round(x))
print(TechSkills)

```

reason	reason \
Google Drive	Google Drive
Microsoft Office	Microsoft Office
Microsoft Excel	Microsoft Excel
Microsoft Project	Microsoft Project
Microsoft PowerPoint	Microsoft PowerPoint
Microsoft Project	Microsoft Project
Microsoft PowerPoint	Microsoft PowerPoint
Microsoft Office	Microsoft Office
Microsoft Visio	Microsoft Visio
Google Docs	Google Docs
Microsoft Outlook	Microsoft Outlook
Microsoft SharePoint	Microsoft SharePoint
Google AdWords	Google AdWords
Microsoft SQL Server	Microsoft SQL Server
Google Analytics	Google Analytics

reason	description	frequency \
Google Drive	Office suite software	25
Microsoft Office	Office suite software	24
Microsoft Excel	Spreadsheet software	13
Microsoft Project	Project management software	13
Microsoft PowerPoint	Presentation software	10
Microsoft Project	Project management software	10
Microsoft PowerPoint	Presentation software	10
Microsoft Office	Office suite software	9
Microsoft Visio	Graphics or photo imaging software	9
Google Docs	Word processing software	9
Microsoft Outlook	Electronic mail software	8
Microsoft SharePoint	Project management software	8
Google AdWords	Sales and marketing software	8
Microsoft SQL Server	Data base user interface and query software	7
Google Analytics	Data mining software	7

reason	cumulativePercentage
Google Drive	14.71
Microsoft Office	28.82
Microsoft Excel	36.47
Microsoft Project	44.12
Microsoft PowerPoint	50.00
Microsoft Project	55.88
Microsoft PowerPoint	61.76
Microsoft Office	67.06
Microsoft Visio	72.35
Google Docs	77.65
Microsoft Outlook	82.35
Microsoft SharePoint	87.06
Google AdWords	91.76
Microsoft SQL Server	95.88
Google Analytics	100.00

```
fig, ax =plt.subplots()
```

```

ax.bar(TechSkills.index, TechSkills["frequency"], color="C5")

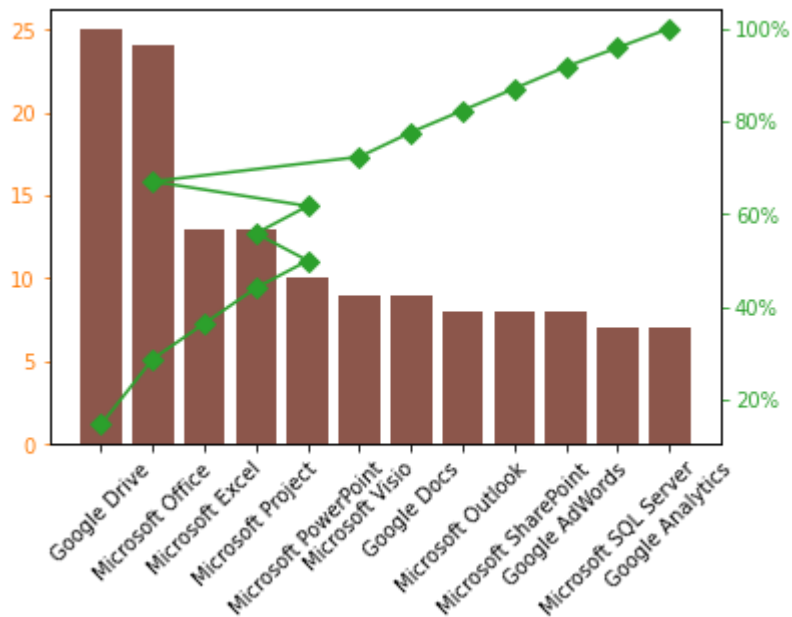
ax.set_xticklabels(TechSkills['reason'], rotation=45)

ax2 = ax.twinx()
ax2.plot(TechSkills.index, TechSkills["cumulativePercentage"], color = "C2", marker="D", ms=7)
ax2.yaxis.set_major_formatter(PercentFormatter())

ax.tick_params(axis="y", colors="C1")
ax2.tick_params(axis="y", colors="C2")
for index, v in TechSkills.iterrows():
    label=round(v['cumulativePercentage'],1)

plt.show()

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New Section

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