Australian Labour Data -Tech Industry Employment Analysis

AIM: The aim of this project is to find the key insights and employment distribution and number of employees in all-over Australia specific to Professional, Scientific and Technical Services

Data Source: https://lmip.gov.au/default.aspx?LMIP/Downloads/EmploymentRegion
Data: Employment by Industry Data – November 2021

Resources: Internet

KEY FINDINGS

TOP FIVE LARGEST INDUSTRIES
Professional, Scientific and Technical Services has 1204000 employees all over Australia and stood in third place whereas Health Care, Social Assistance and Retail Trade takes the first place with the highest number of employees distributed across Australia.
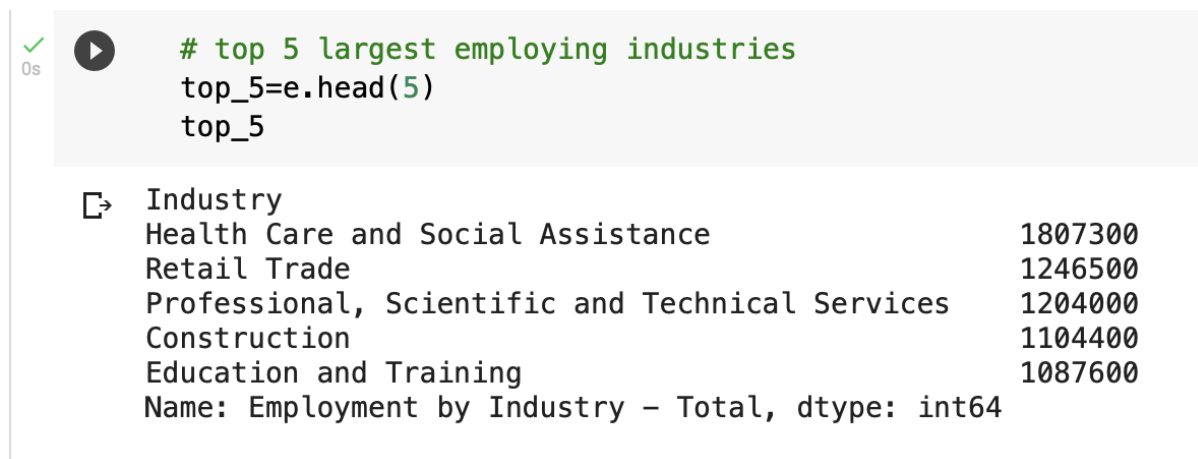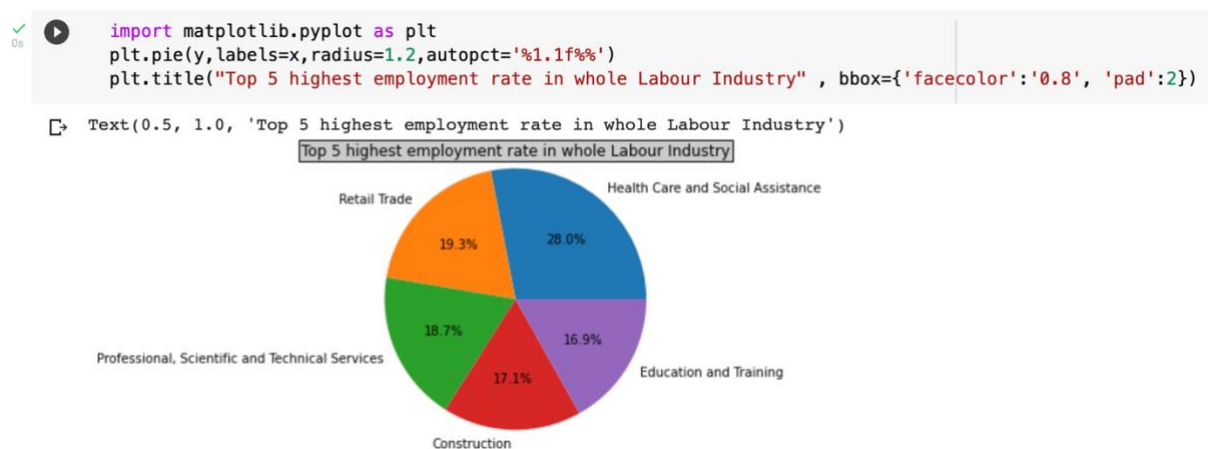
Fig 1:

```python
# top 5 largest employing industries
top_5=e.head(5)
top_5
```

```
Industry
Health Care and Social Assistance          1807300
Retail Trade                               1246500
Professional, Scientific and Technical Services   1204000
Construction                               1104400
Education and Training                     1087600
Name: Employment by Industry — Total, dtype: int64
```

Fig 2:

```python
import matplotlib.pyplot as plt
plt.pie(y,labels=x,radius=1.2,autopct='%1.1f%%')
plt.title("Top 5 highest employment rate in whole Labour Industry" , bbox={'facecolor':'0.8', 'pad':2})
```

```
Text(0.5, 1.0, 'Top 5 highest employment rate in whole Labour Industry')
```
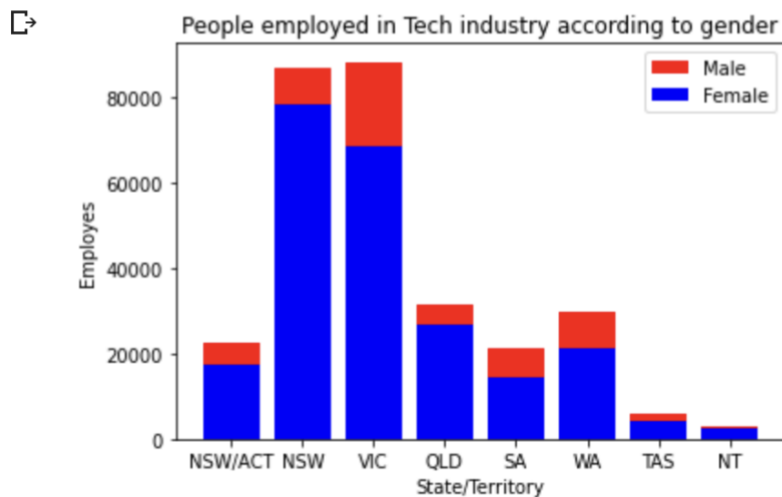
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Victoria and NSW have highest number of employees recorded in November 2021 with more than 70000 employees in male and Female employees Individually whereas other states recorded lowest number compared to Victoria and NSW with an average of 20000 employees individually.

Fig 3:

```
x=Tech_Services['State/Territory']
male_employed=Tech_Services['Employed – Male']
female_employed=Tech_Services['Employed – Female']
plt.bar(x, male_employed, color='r')
plt.bar(x, female_employed, color='b')
plt.xlabel("State/Territory")
plt.ylabel("Employes")
plt.legend(["Male", "Female"])
plt.title("People employed in Tech industry according to gender")
plt.show()
```


SUMMARY:

- Professional, Scientific and Technical Services have 1204000 employees all over Australia.
- Victoria has highest number of employees in Tech Industry with more than 80k employees individually for Male and Female.