on the salary? What addinated in this 21 century, peop	n and Mo	otivation with the term "big	dents who want to v	vork in similar fi s to large amour	nt of data that	exceeds	the proces
capacity of traditional data transforming into digital Therefore, data science Data science is an interfields. It encompasses it (including examining the	data, while increate is developed. rdisciplinary field - machine learning	asing demand for combining subje (algorithms that u	data analysis in vacts such as compu	ter science, mat	es makes it p hematics, sta e amounts of	oarticularly atistics, ar f data), da	y importan nd many o ata analysi:
solve business problem field has been increasing science is currently ass Therefore, as students project that allows us to and the skills/language	ns) and data enging exponentially for sociated with almomajoring in statist of further explore the	eering (focusing or the recent decast every modern in its well) ics, we would like the data related join	on acquiring data, pays, as well as the additional and the additional	preparing data, application of da career path, so d in not only the	and processi ta science. It we determin requirement	ng data). is worth the second conditions are second to conditions.	Research noting that uct a analy
need for the job of interesting all of the industry we wanted a part of the industry we wanted a part of the industry was a part	want to work in. In a Scientist the factors that co	s this project, we Salary (Ka	will analyze the data aggle) for data science rel	a using various	plots.	ore the Da	ıta Scientis
# import salary data = pd.read_csdata.head(6)	e company, etc.).			nie, with 42 van	ables (Sucil à	as average	e salary, jo
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Scientist (0 6 rows × 42 columns For our project, we will Company ratings	est.)	Scientist	o among salary and	d the following a	reas:	500	
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Context Proficiency in different pare helpful purpose of a following code provides	analyzing. People	need to determin	e which programm	ing languages a			
<pre>import pandas as import numpy as n import seaborn as import matplotlib</pre>	p sns						
<pre>#Creat a histogram lst=[] for i in skills:</pre>	ython","spark" scikit","tenso	,"aws","excel' r","hadoop","1 counts of prog	cableau","bi","	flink","mongo		an"]]	
skills_sum=pd.Data new_skils=skills_ a=pd.DataFrame(newsns.set(font_scalaplt.gcf().set_size ax = sns.barplot(ax.set(title = "Bata ax")	aFrame(lst) sum[1] w_skils) e=2) e_inches(25, 8) x = a.index, y) = a[1])	u <mark>age"</mark> , xlabel =	"Programming	language"	, ylabel	L = "Cour
#create a datafrantal a The question that we try us some insights about counts of each program	y to determine is t which type of pro nming language in	hat which progra gramming languç our dataset. The	mming language ar pages has relations dataset collect the	hip with salary. ' information fro	We create a on 742 data s	dataframe cientist. T	to shows here are to
16 programming langual excel, sql are the top 3 to indicate the result. The python, excel, and sql had identify that how many planguages is the most used in the workplace a	progamming lang hus, we need to make a similar cour people used pythoused programming	uages among da lake the data mon lats which the bars on language. 392 g language. From	ta scientist and dat re visualize. A barp s have same length data scientist repo	a related jobs. Flot was made to .Next, we checkert that they used	laving a data visually prest back at the danger	frame is resent the dataframe	not that ob ata. In the e. We can hon progra
<pre># Create a graph lst1=[] for i in skills: lst1.append((skills_by_title1: skills_by_title1= skills_by_title1.</pre>	i)) = data.groupby skills_by_titl	('job_title_s: e1.drop("na")	im').sum()[lst1]]	es		
To dig deeper about the better understand what analyst, data modeler, a programing being used most. This implicate that demand for Data Scient	programming land and so on. In addi most often. From at python is the mo	guages are being tion, we use red o the dataframe, it ost important skill	used for each job color to show the re is clear to see that for data scientist. I	title. In our data elationship. The data scientist fa t looks like Pyth	set, our job ti deeper the re avor python p on and SQL	itle include ed color m programmi are the to	e data scieneans the ing languge pskills in
compared to other lang conclusion, it is imperated to other lang conclusion. The context context context context context.	uages One interestive to process the	sting finding is the python skills if y	at Excel is also a go ou want to become	ood skill to have a data scientist	since many in the future	jobs need	l that skill.
Besides programming lausually have the stereor undergraduate students pursuing further degree as well as the relationship.	type that for these s that are about to e (such as Master hip with salaries, t	e computer science finish our Bache or Phd) or not. The o have a better s	ce related jobs, PhI lor's Degree, it is a nerefore, we would ense of the real-wo	D is a necessary n important time like to explore t orld situation.	requirement point that we he distributio	t to apply. e should c n of degre	As decide whe
After finishing our educated between average salary Methodology In this datset, we notice integrity, we replaced the	y and job types is ed that many job d	also conducted. escriptions do no	t have specific deg	ree requiremen	ts. In order to	have a b	etter data
<pre>import seaborn as import matplotlib # copy the data for degree = data.cop</pre>	art. sns .pyplot as plt for degree v.s.	job type anal	lysis	uivalent), and P	(PHD or equ	ivalent), a	and visuali
plt.title("Degree Text(0.5, 1.0, 'De	ata using bar gree", kind="c =['B', 'M', 'P Requirement C	plot ount", '], palette="count", size=16 nt Count')	ch:.25", data=de	egree)			
Degree 400 1 350 - 300 - 250 -	Requirement	Junt					
250 - 150 - 100 - 50 -							
The result showed that require for Master than Therefore, it seems that	for PhD. Overall,	we can see that t	here is a decreasir	ig trend of jobs i	equired for h		,
Moreover, we conduct for plot, which is more information with the desired conduct for the desired cond	further analysis of rmative and shows that a using violing Salary(K)", =['B', 'M', 'P	the salary distributs the full distribut in plot y="Degree", k: '], palette="c	ution among differe	ent degree group plain box plot.		ize the re	sult using
orders plt.title("Avg Sal Text(0.5, 1.0, 'Avg Sal	=['B', 'M', 'P lary by Degree	'], palette="(", size=16) gree')		,			
Degree W W W							
P - 0 50	100 150 20	00 250					
We can see that the me PhD has the highest me shape near the median in the middle. Our gues get hire in a company fo	Avg Salary(K) edian for average edian at about 125 average salary. T	salaries demonst 5K. However, the his indicates that D students, they	re is an interesting there are more job either choose to co	founding that fo s have either hi intinue devoting	r PhD salary gher or lowe themselves	distribution salaries, in researc	on, we hav instead of th, or they
Based on these two res high expectation on the Next, for career-oriented Here we apply a boxen	sults, we can conc salary, maybe ga d purpose, we als	lude that most jol ining a higher de o want to explore	os indeed only requ	uire for a Bachel pice.	or's Degree.	However,	, if you hav
<pre># copy the datase salary = data.cop # visualize the data plt.figure(figsize sns.catplot(y="joon palet plt.ylabel("Job T plt.title("Avg Salar)</pre>	y()[['job_titl ata using boxe e=(10,10)) b_title_sim", te="ch:.25", a ype")	e_sim', 'Avg S n plot x="Avg Salary(spect=2, data=	Salary(K)']] (K)", kind="boxe	en",			
Text(0.5, 1.0, 'Av <figure 720x7<br="" size="">data sc other sc</figure>	20 with 0 Axes	>	Avg Salary by J	ob Type □		•	
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