1	31 31 Pri	Government Sector ivate Sector/Self Employed ivate Sector/Self	Yes Yes	400000 1250000	FamilyMembers Chronic 6 7	0	No No	No No
3	34 28 Pri	ivate Sector/Self Employed ivate Sector/Self Employed ivate Sector/Self Employed	Yes Yes	500000 700000 700000	4 3 8	1 1 1	No No Yes	No No
 1982 1983	33	ivate Sector/Self Employed ivate Sector/Self Employed	Yes	 1500000 1750000	 4 5	 0 1	 Yes No	 Yes Yes
1984	28 Pri 34	ivate Sector/Self Employed ivate Sector/Self Employed	Yes	1150000	6	0	No Yes	No Yes
1986 1987 ro	ws × 9 c	ivate Sector/Self Employed columns	Yes	500000	4	0	No	No
7 sh		Age	200 Annu	se=None, bloo	ck=None)>			
400		yMembers 35	0 0.€hron	iicDiseases				
1000	0	0.5 1.0						
X=df[:	feature 'Travel (X) (y)	es] lInsurance']	ncome', 'Fa		,'ChronicDiseases'] iseases 1			
1 2 3 4 1982 1983	31 34 28 28 33 28	1250000 500000 700000 700000 1500000 1750000		7 4 3 8 ••• 4 5	0 1 1 1 0			
1984 1985 1986 [1987 0	28 34 34 rows x 0	1150000 1000000 500000 x 4 columns]		6 6 4	1 0 0			
2 3 4 1982 1983 1984	1 0 0 1 0							
!pip :	install		fied: pydot	plus in c:\p:	rogramdata\anaconda3			
(3.0.4 WARNIN	1) NG: You nould c	are using pi	p version 2	1.2.4; howeve	in c:\programdata\ar er, version 22.0.4 : mData\Anaconda3\pyth	is available	e.	
importimport	viron[' t panda t numpy t matpl	'PATH'] = os.e as as pd y as np lotlib.pyplot orn as sns		H']+';'+os.e	nviron['CONDA_PREFI	X']+r"\Libr.	ary\bin\gra	aphviz"
raw_daraw_dasns.pa	ata = pata.col ata.inf airplot s 'pand Index:	od.read_csv('T lumns fo() c(raw_data, hu das.core.frame 1987 entries,	e = 'Travel .DataFrame' 0 to 1986					
Data 6 # 0 0	columns Column Age Employm Graduat	mentType teOrNot Income	umns): Non-Null C 1987 non-n 1987 non-n 1987 non-n	ull int64 ull object ull object ull int64				
4 F 5 C 6 F 7 F 8 T dtypes memory	FamilyM Chronic Frequen EverTra FravelI s: int6 7 usage	Members cDiseases atFlyer avelledAbroad Insurance 54(5), object(e: 139.8+ KB	1987 non-n 1987 non-n 1987 non-n 1987 non-n 1987 non-n 4)	ull int64 ull int64 ull object ull object ull int64				
<seabo< td=""><td>n.axi</td><td>lsgrid.PairGri</td><td>d at 0x20a3</td><td><pre></pre></td><td></td><td></td><td></td><td></td></seabo<>	n.axi	lsgrid.PairGri	d at 0x20a3	<pre></pre>				
28 26 1.75	le6		(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)((833)X(0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-		-
1.50 1.25 1.00 0.75 0.50					######################################			
FamilyMembers CO 67 8 9 6 75	-	•••	-				•	Travelinsurance 0 1
Familyl	-	•	40000000000000000000000000000000000000	(0)(0)(0)(0)(0) (0) (0)(0)(0)(0)(0)(0) (0) (0)(0)(0)(0)(0)(0) (0) (0)(0)(0)(0)(0)(0) (0)		_		-
8.0	-			1		1 ^		
OronicDiseases	-			-				
0.0		30 35 Age rop('TravelIns FravelInsuranc	0.0 0.5 1 Annua	LO 15 2.0 allncome le6	2.5 5.0 7.5 10.0 FamilyMembers		0.5 1.0 cDiseases	_
o.o inputs target from s le_Emp le_Gra le_Free	s=df.dr t=df['] sklearr ploymer aduate0 equentE	Age	0.0 0.5 1 Annua urance', axi e'] g import La coder() oder() oder()	0 15 20 allncome le6 s='columns') belEncoder				_
o.o inputs target from s le_Emple_Gra le_Fre le_Eve inputs inputs inputs inputs	s=df.dr t=df['] sklearr ploymer aduate0 equentF erTrave s['Emp] s['Grac s['Free	rop('TravelIns TravelInsuranc n.preprocessin ntType=LabelEn DrNot=LabelEnc Flyer=LabelEnc elledAbroad=La loymentType_n' duateOrNot_n'] quentFlyer_n'] rTravelledAbro	o.0 o.5 l Annua urance', axi e'] g import La coder() oder() oder() belEncoder(]=le_Employ =le_Graduat =le_Frequen	DO 15 20 allncome le6 s='columns') belEncoder mentType.fit eOrNot.fit_t tFlyer.fit_t.		EmploymentT; aduateOrNot equentFlyer	ype']) '])	edAbroad'])
o.o inputs target from s le_Emp le_Gra le_Fre le_Eve inputs inputs inputs inputs	s=df.dr t=df['] sklearr ploymer aduate(equentF erTrave s['Empl s['Grac s['Frec s['Ever s.head Emplo	rop('TravelIns TravelInsuranc n.preprocessin ntType=LabelEn DrNot=LabelEnc Flyer=LabelEnc elledAbroad=La loymentType_n' duateOrNot_n'] quentFlyer_n'] rTravelledAbro ()	o.0 0.5 1 Annua urance', axi e'] g import La coder() oder() oder() belEncoder(]=le_Employ =le_Graduat =le_Frequen ad_n']=le_E	DO 15 20 allncome le6 s='columns') belEncoder mentType.fit eOrNot.fit_t tFlyer.fit_t verTravelled.	_transform(inputs[']ransform(inputs['Gransform(inputs['Fransform(inputs['Fransform(inputs['Fransform(inputs['Fransform(inputs['Fransform(inputs['Fransform(inputs['Fransform(inputs['Fransform(inputs['Fransform(inputs['Fransform(inputs['Fransform(inputs['Fransform(inputs['Fransform(inputs['Fransform(inputs[']Fransform	EmploymentT aduateOrNot equentFlyer m(inputs['E	ype']) ']) ']) verTravelle	
inputs target from s le_Emple_Grale_Free le_Eve inputs inputs inputs inputs 1	s=df.dr t=df['] sklearr ploymer aduateO equentF erTrave s['Empl s['Frec s['Ever s.head) Private Private	rop ('TravelIns TravelInsuranc n.preprocessin ntType=LabelEn DrNot=LabelEnc Flyer=LabelEnc elledAbroad=La loymentType_n' duateOrNot_n'] quentFlyer_n'] rTravelledAbro () symentType Grade Government Sector	urance', axi e'] g import La coder() oder() oder() belEncoder(]=le_Employ =le_Graduat =le_Frequen ad_n']=le_E uateOrNot An Yes Yes Yes	Do 15 20 allocome le6 s='columns') belEncoder mentType.fit_torNot.fit_ttyer.fit_tverTravelled. nuallocome Far 400000 1250000 700000	_transform(inputs[']ransform(inputs[']ransform(inputs[']ransform(inputs[']ransform)]ransform(inputs[']ransform)] ChronicDise	EmploymentTy aduateOrNot equentFlyer m(inputs['Error of the content of the conten	ype']) ']) ']) verTravelle tFlyer EverTra No No No No	No No No No No
inputs target from s le_Emple_Grale_Freshe_Eve inputs Age	s=df.dr t=df['] sklearr ploymer aduateO equentF erTrave s['Empl s['Grac s['Frec s.head Private Private Private S_n=inp	rop('TravelIns TravelInsurance n.preprocessin ntType=LabelEncelledAbroad=La loymentType_n'duateOrNot_n'] quentFlyer_n'] rTravelledAbroad Government Sector Sector/Self Employed e Sector/Self Employed	urance', axi e'] g import La coder() oder() oder() belEncoder(]=le_Employ =le_Graduat =le_Frequen ad_n']=le_E vateOrNot An Yes Yes Yes Yes Yes Yes	nualIncome Far 400000 1250000 700000 e','Graduate	_transform(inputs[']ransform(inputs[']ransform(inputs[']Free Abroad.fit_transform milyMembers ChronicDise 6 7 4 3 8 OrNot','FrequentFlye	EmploymentTy aduateOrNot equentFlyer m(inputs['End eases Frequen 1 0 1 1 1 1 1 1 1	ype']) ']) ']) verTravelle tFlyer EverTra No No No No Aveases	No
inputs target from s le_Emple_Grale_Frele_Eve inputs inpu	s=df.dr t=df['] sklearr ploymer aduateO equentF erTrave s['Empl s['Grac s['Frec s.head Private Private Private S_n=inp	rop('TravelIns TravelInsurance n.preprocessin ntType=LabelEncelledAbroad=La loymentType_n'duateOrNot_n'] quentFlyer_n'] rTravelledAbroad Government Sector Sector/Self Employed e Sector/Self Employed	urance', axi e'] g import La coder() oder() oder() belEncoder(]=le_Employ =le_Graduat =le_Frequen ad_n']=le_E vateOrNot An Yes Yes Yes Yes Yes Yes	nualIncome Far 400000 1250000 700000 e','Graduate	_transform(inputs[']ransform(inputs[']ransform(inputs[']ransform(inputs[']ransform)]ransform(inputs[']ransform) milyMembers ChronicDise 6 7 4 3 8	EmploymentTy aduateOrNot equentFlyer m(inputs['End eases Frequen 1 0 1 1 1 1 1 1 1	ype']) ']) ']) verTravelle tFlyer EverTra No No No No Yes avelledAbro FrequentFlyer_	No
inputs target from s le_Emgle_Gra le_Fre le_Eve inputs	s=df.dr t=df['] sklearr ploymer aduateO equentF erTrave s['Emp] s['Grac s['Frec s['Ever s.head Private Private Private Private Age An 31 34	Age rop('TravelIns FravelInsurance n.preprocessin ntType=LabelEnce Plyer=LabelEnce Plyer=La	urance', axi e'] g import La coder() oder() oder() belEncoder(]=le_Employ =le_Graduat =le_Frequen ad_n']=le_E ves Yes Yes Yes Yes Yes Yes Yes	nualIncome Far 400000 1250000 700000 700000 12 on the first of th	_transform(inputs[']ransform(inputs[']Gransform(inputs[']FrequentFlyed) Abroad.fit_transform fillyMembers ChronicDise 6 7 4 3 8 OrNot','FrequentFlyed EmploymentType_n Grad 0 1 1	EmploymentTy aduateOrNot equentFlyer m(inputs['Er eases Frequen 1 0 1 1 1 1 1 1 1 1 1 1 1	ype']) ']) ']) verTravelle tFlyer EverTra No No No No Yes avelledAbro FrequentFlyer_	No No No No No No No Dad'],axis='col Dad'],axis='col O O O
inputs target from s le_Emple_Gra le_Fre le_Eve inputs i	s=df.dr t=df['] sklearr ploymer aduateO equentF erTrave s['Empl s['Grac s['Free s.head Private Private Private Private Age An 31 34 28 28 33 28 34 34	Age rop ('TravelIns TravelInsurance n.preprocessin ntType=LabelEncelledabelEncelledabroad=LabelEncelled	urance', axi e'] g import La coder() oder() oder() belEncoder(]=le_Employ =le_Graduat =le_Frequen ad_n']=le_E ves Yes Yes Yes Yes Yes Yes Yes	Do 15 20 allocome le6 s='columns') belEncoder mentType.fit_ttftyer.fit_ttryer.fit_tverTravelled. nuallocome Far 400000 700000 700000 700000 11 1 1 1 1 0 1 1 1 1 1	_transform(inputs[']ransform(inputs[']Gransform(inputs[']FrequentFlyed) Abroad.fit_transform milyMembers ChronicDise 6 7 4 3 8 OrNot','FrequentFlyed EmploymentType_n Grad 0 1 1 1 1 1 1 1 1 1	EmploymentTyaduateOrNot equentFlyer m(inputs['Erotage asses Frequent	ype']) ']) verTravelle tFlyer EverTra No No No Yes avelledAbro FrequentFlyer_	No No No No No No Oad'],axis='col O O O O O O O O O O O O O O O O O O O
0.0 inputs target from s le_Emple_Grate_Free le_Eve inputs inpu	s=df.dr t=df['] sklearr ploymer aduateO equentF erTrave s['Empl s['Grac s['Free s.head Private Private Private Private Private Age An 31 31 34 28 28 33 28 28 33 28 28 34 ws × 8 O sklearr etree.F	Age rop ('TravelIns FravelInsurance n.preprocessin ntType=LabelEnce Plyer=LabelEnce Plyer=L	urance', axie'] g import La coder() oder() oder() belEncoder(]=le_Employ =le_Graduat =le_Frequen ad_n']=le_E vateOrNot An Yes Yes Yes Yes Yes Yes Yes A 3 8 4 3 8 4 3 8 4 3 8 4 3 8 4 3 8 4 3 8 4 3 8 4 3 8 4 3 8 4 3 8 4 3 8 4 3 8 4 3 8 4 3 8 4 3 8 4 5 6 6 6 7 4 3 8 4 3 8 4 3 8 4 3 8 4 3 8 4 5 6 6 6 7 4 3 8 4 3 8 4 3 8 4 3 8 4 3 8 8 4 3 8 4 3 8 8 4 3 8 8 4 3 8 8 4 3 8 8 4 3 8 8 8 4 3 8 8 8 8 8 8 8 8 8 8 8 8	Do 15 20 allocome le6 s='columns') belEncoder mentType.fit_ttft_ttravelled. nuallocome Far 400000 700000 700000 700000 700000 1 1 1 1 0 1 1 1 0	transform(inputs[']ransform(inputs[']ransform(inputs[']ransform(inputs[']ransform)]r	EmploymentTyaduateOrNot equentFlyer m(inputs['Erotage asses Frequent	ype']) ']) verTravelle tFlyer EverTra No No No Yes avelledAbro FrequentFlyer_	No No No No No No No Dad'],axis='col
inputs target from s le_Emple_Gra le_Fre le_Eve inputs	s=df.dr t=df['] sklearr ploymer aduateO equentF erTrave s['Empl s['Grac s['Frec s['Ever s.head Private Private Private Private Private Age An 31 31 34 28 28 33 28 28 34 35 36 37 38 38 38 38 38 38 38 38 38	Age rop ('TravelIns FravelInsurance n.preprocessin ntType=LabelEnce Plyer=LabelEnce Plyer=L	urance', axie'] g import La coder() oder() oder() belEncoder(]=le_Employ =le_Graduat= =le_Frequen ad_n']=le_E vateOrNot An Yes Yes Yes Yes Yes Yes Yes A 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 6 7 4 3 8 4 5 6 6 6 7 4 3 8 8 4 5 6 6 6 7 9 8 8 8 8 8 8 8 8 8 8 8 8	Do 15 20 allocome le6 s='columns') belEncoder mentType.fit_ttft_ttravelled. nuallocome Far 400000 700000 700000 700000 700000 1 1 1 1 0 1 1 1 0	transform(inputs[']ransform(inputs[']ransform(inputs[']ransform(inputs[']ransform)]r	EmploymentTyaduateOrNot equentFlyer m(inputs['Erotage asses Frequent	ype']) ']) verTravelle tFlyer EverTra No No No Yes avelledAbro FrequentFlyer_	No No No No No No No Dad'],axis='col
inputs target from s le_Emple_Gra le_Fre le_Eve inputs 0 1 2 3 4 1982 1983 1984 1985 1986 1987 row from s model= model Decisis model array inputs	s=df.dr t=df['] sklearr ploymer aduateO equentF erTrave s['Emp] s['Grac s['Frec s['Ever s.head Private Private Private Private Private Age An 31 31 34 28 28 33 28 28 34 34 34 28 28 36 37 38 38 39 30 31 31 31 31 32 33 34 35 36 37 38 38 38 38 38 38 38 38 38	rop('TravelIns TravelInsurance n.preprocessin ntType=LabelEnce Tlyer=LabelEnce Tlyer=LabelEn	urance', axie'] g import La coder() oder() oder() belEncoder(]=le_Employ =le_Graduat =le_Frequen ad_n']=le_E vateOrNot An Yes Yes Yes Yes Yes Yes A 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 6 7 4 9 assifier()) et)	Do 15 20 allocome le6 s='columns') belEncoder mentType.fit_ttft_ttravelled. nuallocome Far 400000 700000 700000 700000 700000 1 1 1 1 0 1 1 1 0	transform(inputs[']ransform(inputs[']ransform(inputs[']ransform(inputs[']ransform)]r	EmploymentTyaduateOrNot equentFlyer m(inputs['Erotage asses Frequent	ype']) ']) verTravelle tFlyer EverTra No No No Yes avelledAbro FrequentFlyer_	No No No No No No No Dad'],axis='col
inputs target from s le_Emple_Gra le_Fre le_Eve inputs	s=df.dr t=df['] sklearr cloymer aduateCe equentF erTrave s['Emplo s['Frec s['Frec s['Frec s]'Frec s['Frec s]'S['Frec s]'S['S['S]'S[Age rop ('TravelIns FravelInsurance n.preprocessin ntType=LabelEnce Plyer=LabelEnce Plyer=L	urance', axi e'] g import La coder() oder() oder() belEncoder(]=le_Employ =le_Graduat =le_Frequen ad_n']=le_E ves Yes Yes Yes Yes Yes Yes PloymentTyp (IyMembers CI 6 7 4 3 8 4 5 6 6 4 assifier()) et)	lo 15 20 allocome le6 s='columns') belEncoder mentType.fit teOrNot.fit_ttstFlyer.fit_tverTravelled nuallocome Far 400000 700000 700000 700000 rooooo 1 1 1 0 1 1 0 0 1	transform(inputs[']ransform(inputs[']ransform(inputs[']ransform(inputs[']ransform)]r	EmploymentTyaduateOrNot equentFlyer m(inputs['Erotage asses Frequent	ype']) ']) verTravelle tFlyer EverTra No No No Yes avelledAbro FrequentFlyer_	No No No No No No No Dad'],axis='col
inputs target from sele_Emple_Grale_Free le_Event inputs i	s=df.dr t=df['] sklearr cloymer aduateCe equentF erTrave s['Emplo s['Frec s['Frec s['Frec s]'Frec s['Frec s]'S['Frec s]'S['S['S]'S[rop ('TravelIns FravelInsurance n.preprocessin ntType=LabelEnce Plyer=LabelEnce Plyer=LabelE	urance', axi e'] g import La coder() oder() oder() belEncoder(]=le_Employ =le_Graduat =le_Frequen ad_n']=le_E ves Yes Yes Yes Yes Yes Yes PloymentTyp (IyMembers CI 6 7 4 3 8 4 5 6 6 4 assifier()) et)	lo 15 20 allocome le6 s='columns') belEncoder mentType.fit teOrNot.fit_ttstFlyer.fit_tverTravelled nuallocome Far 400000 700000 700000 700000 rooooo 1 1 1 0 1 1 0 0 1	transform(inputs[']ransform(inputs[']ransform(inputs[']ransform(inputs[']ransform)]r	EmploymentTyaduateOrNot equentFlyer m(inputs['Erotage asses Frequent	ype']) ']) verTravelle tFlyer EverTra No No No Yes avelledAbro FrequentFlyer_	No No No No No No No Dad'],axis='col
inputs target from sele_Emple_Grale_Even inputs inp	s=df.dr t=df['] sklearr ploymer aduateO equentF erTrave s['Emp] s['Grac s['Frec s['Frec s['Frec s]	rop ('TravelIns TravelInsurance n.preprocessin ntType=LabelEnce Plyer=LabelEnce Plyer=LabelEnce Plyer=LabelEnce Plyer=LabelEnce Plyer=LabelEnce Plyer=LabelEnce Plyer=LabelEnce Plyer=LabelEnce Plyer=LabelEnce Plyer=N'	urance', axi e'] g import La coder() oder() oder() oder() belEncoder(]=le_Employ =le_Graduat =le_Frequen ad_n']=le_E uateOrNot An Yes Yes Yes Yes Yes Yes A 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 7 4 3 8 4 5 6 7 4 7 4 7 4 7 7 7 8 A A A A A A A A A A A A	hronicDiseases 1 0 15 20 illincome le6 s='columns') belEncoder helf and the service of the ser	transform(inputs[']ransform(inputs[']ransform(inputs[']ransform(inputs[']ransform)]r	EmploymentTyaduateOrNot equentFlyer m(inputs['Erotage asses Frequent	ype']) ']) verTravelle tFlyer EverTra No No No Yes avelledAbro FrequentFlyer_	No No No No No No No Dad'],axis='col
inputs target from s le_Emple_Gra le_Fre le_Eve inputs i	s=df.dr t=df['] sklearr ploymer aduateO equentE erTrave s['Emplo s['Free s'Ever shead Private Private Private Private s_n=ing s_n Age An 31 31 34 28 28 33 28 28 34 34 34 34 35 36 36 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	rop ('TravelIns FravelInsurance rop ('Travelled rop ('Trave	urance', axi e'] g import La coder() oder() oder() oder() belEncoder(]=le_Employ =le_Graduat =le_Frequen ad_n']=le_E ves Yes Yes Yes Yes Yes Yes PloymentTyp IlyMembers Cl 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 7 4 3 8 4 5 6 7 4 3 8 4 5 6 6 7 4 3 8 4 4 5 6 7 4 3 8 4 4 5 6 7 4 3 8 4 4 5 6 7 4 3 8 4 4 5 6 7 4 3 8 4 4 5 6 7 4 3 8 4 4 4 5 6 7 4 3 8 4 4 4 6 7 4 3 8 4 4 4 6 7 4 4 3 8 4 4 3 8 4 4 4 4 4 6 7 4 4 4 4 4 6 7 4 4 4 4 4 6 7 4 4 4 4 4 4 4 4 4 4 4 4	Do	transform(inputs[']ransform(inputs[']ransform(inputs[']ransform(inputs[']ransform)]r	EmploymentTyaduateOrNot equentFlyer m(inputs['Erotage asses Frequent	ype']) ']) verTravelle tFlyer EverTra No No No Yes avelledAbro FrequentFlyer_	No No No No No No No Dad'],axis='col
0.0 inputs target from s le_Emple_Grate_Evenue inputs in	s=df.dr t=df['] sklearr ploymer aduateO equentE erTrave s['Emplo s['Free s'Ever shead Private Private Private Private Private s_n=ing s_n Age An 31 31 34 28 28 34 34 ws × 8 o sklearr stonTree	rop ('TravelIns FravelIns FravelInsuranc 1.preprocessin 1.pr	0.0 0.5 1 Annual Innual Inn	Do	transform(inputs[']ransform(inputs[']ransform(inputs[']ransform(inputs[']ransform)]r	EmploymentTyaduateOrNot equentFlyer m(inputs['Erotage asses Frequent	ype']) ']) verTravelle tFlyer EverTra No No No Yes avelledAbro FrequentFlyer_	No No No No No No No Dad'],axis='col
inputs target from s le_Emple_Gra le_Fre le_Eve inputs i	s=df.dr t=df['] sklearr ploymer aduateO equentE erTrave s['Emplo s['Free s'Ever shead Frivate Private Private Private Private S_n=ing S_n Age An 31 31 34 28 28 33 28 28 34 34 34 ws × 8 O sklearr stonTree stonTr	rop ('TravelIns FravelInsurance rop ('Travelled rop ('Trave	0.0 0.5 1 Annual Innual Inn	Do	transform(inputs[']ransform(inputs[']ransform(inputs[']ransform(inputs[']ransform)]r	EmploymentTyaduateOrNot equentFlyer m(inputs['Erotage asses Frequent	ype']) ']) verTravelle tFlyer EverTra No No No Yes avelledAbro FrequentFlyer_	No No No No No No No Dad'],axis='col
inputs target from s le_Emple_Grate_Free le_Eve inputs i	s=df.dr t=df['] sklearr ploymer aduateO equentF erTrave s['Emplo S['Free s'Ever shead Private Private Private Private Private S['Ever shead standard Age An 31 31 34 28 28 38 38 28 39 31 31 31 31 34 28 28 38 38 38 38 38 38 38 38 38 38 38 38 38	Age TOP ('TravelIns FravelInsurance TravelInsurance TravelInsurance TravelInsurance TravelInsurance TravelInsurance TravelLabelEnce TravelLabelEnce TravelLabelEnce TravelledAbroad=La TravelledAbroad=La TravelledAbroad Tra	o.o o.5 in Annual urance', axie urance', axie o'] g import La coder() oder() oder() oder() belEncoder(]=le_Employ =le_Graduat =le_Frequen ad_n']=le_E ves Yes Yes Yes Yes Yes ploymentTyp ilyMembers Cl 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 6 7 4 3 8 4 5 6 6 6 7 4 3 8 4 5 6 6 6 7 4 3 8 4 4 5 6 6 6 7 4 4 3 8 4 4 4 4 4 4 5 6 6 6 7 4 4 4 4 7 8 8 8 4 4 7 8 8 8 4 4 7 8 8 8 4 4 8 8 8 4 4 8 8 8 4 8 8 8 4 8 8 8 4 8 8 8 8 8 8 8 8 8 8 8 8		_transform(inputs[']ransform(inputs[']ransform(inputs[']ransform)cDisconding	EmploymentTyaduateOrNot equentFlyer m(inputs['E']) eases Frequent 1 1 1 1 1 1 1 1 1 1 1 1 1	ype']) ']) ']) verTravelle tFlyer EverTra No No No Yes avelledAbro FrequentFlyer_	No No No No No No No Dad'],axis='col
1	s=df.dr t=df['] sklearr ploymer aduateO equentF erTrave s['Emplo S['Free s'Ever shead Private Private Private Private S['Ever shead streen shead shead streen shead	rop ('TravelIns FravelInsurance In preprocessin IntType=LabelEnc In preprocessin IntType=LabelEnc IntType=LabelEnc IntType=LabelEnc IntType=LabelEnc IntType=LabelEnc IntType=IntableInc IntType=IntableInc IntType=IntableInc IntableInc IntableIntableInc IntableInc IntableInc IntableInc IntableIntableInc IntableIntableInc IntableIntableInc IntableIntableInc IntableIntableInc IntableIntabl	o.o o.5 in Annual urance', axie urance', axie o'] g import La coder() oder() oder() oder() belEncoder(]=le_Employ =le_Graduat =le_Frequen ad_n']=le_E ves Yes Yes Yes Yes Yes ploymentTyp ilyMembers Cl 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 6 7 4 3 8 4 5 6 6 6 7 4 3 8 4 5 6 6 6 7 4 3 8 4 4 5 6 6 6 7 4 4 3 8 4 4 4 4 4 4 5 6 6 6 7 4 4 4 4 7 8 8 8 4 4 7 8 8 8 4 4 7 8 8 8 4 4 8 8 8 4 4 8 8 8 4 8 8 8 4 8 8 8 4 8 8 8 8 8 8 8 8 8 8 8 8		transform(inputs[']ransform(inputs[']ransform(inputs[']ransform(inputs[']ransform)cDisc 6 7 4 3 8 OrNot','FrequentFlyc EmploymentType_n Grad 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EmploymentTyaduateOrNot equentFlyer m(inputs['E']) eases Frequent 1 1 1 1 1 1 1 1 1 1 1 1 1	ype']) ']) ']) verTravelle tFlyer EverTra No No No Yes avelledAbro FrequentFlyer_	No No No No No No No Dad'],axis='col
inputs target from s le_Emple_Gra le_Fre le_Eve inputs	s=df.dr t=df['] sklearr ploymer aduateO equentF erTrave s['Emplo s['Free s'Ever shead Private Private Private Private Private s_n=ing s_n Age An 31 31 34 28 28 34 34 ws × 8 o sklearr stree.f fit(ir ionTree stree stree.f fit(ir ionTree stree	Age cop('TravelIns FravelInsurance n.preprocessin ntType=LabelEnc Processin ntType=LabelEnc Processin ntType=LabelEnc Processin ntType=LabelEnc Processin cliedAbroad=La loymentType n' duateOrNot_n'] pravelledAbro () ymentType Gradu Government Sector e Sector/Self Employed e Sector	o.o o.5 in Annual urance', axie urance', axie o'] g import La coder() oder() oder() oder() belEncoder(]=le_Employ =le_Graduat =le_Frequen ad_n']=le_E ves Yes Yes Yes Yes Yes ploymentTyp ilyMembers Cl 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 6 7 4 3 8 4 5 6 6 6 7 4 3 8 4 5 6 6 6 7 4 3 8 4 4 5 6 6 6 7 4 4 3 8 4 4 4 4 4 4 5 6 6 6 7 4 4 4 4 7 8 8 8 4 4 7 8 8 8 4 4 7 8 8 8 4 4 8 8 8 4 4 8 8 8 4 8 8 8 4 8 8 8 4 8 8 8 8 8 8 8 8 8 8 8 8		transform(inputs[']ransform(inputs[']ransform(inputs[']ransform(inputs[']ransform)cDisc 6 7 4 3 8 OrNot','FrequentFlyc EmploymentType_n Grad 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EmploymentTyaduateOrNot equentFlyer m(inputs['E']) eases Frequent 1 1 1 1 1 1 1 1 1 1 1 1 1	ype']) ']) ']) verTravelle tFlyer EverTra No No No Yes avelledAbro FrequentFlyer_	No No No No No No No Dad'],axis='col
1	s=df.dr t=df['] sklearr cloymer cloyme	Age cop('TravelIns FravelInsurance n.preprocessin ntType=LabelEnc Processin ntType=LabelEnc Processin ntType=LabelEnc Processin ntType=LabelEnc Processin cliedAbroad=La loymentType n' duateOrNot_n'] pravelledAbro () ymentType Gradu Government Sector e Sector/Self Employed e Sector	urance', axi e'] g import La coder() oder() obelEncoder(]=le_Employ =le_Graduat =ad_n']=le_E uateOrNot An Yes Yes Yes Yes Yes Yes PloymentTyp ilyMembers Cl 6 7 4 3 8 4 5 6 6 6 7 4 3 8 4 5 6 6 7 4 3 8 4 5 6 6 7 4 3 8 1 1 1 1 1 1 1 1 1 1 1		_transform(inputs[']ransform(inputs[']ransform(inputs[']ransform(inputs[']ransform)] _table	EmploymentTyaduateOrNot equentFlyer m(inputs['E']) eases Frequent 1 1 1 1 1 1 1 1 1 1 1 1 1	ype']) ']) ']) verTravelle tFlyer EverTra No No No Yes avelledAbro FrequentFlyer_	No No No No No No No Dad'],axis='col