





Your Model Will Probably Fail

AND HOW TO PREVENT IT

Alyssa Peck

Data Scientist

Tableau Software



- Data Scientist
- National Parks Enthusiast
- Hobbyist cyclist, gardener, and more



- Data Scientist
- National Parks Enthusiast
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- Triplet



Your Model Will Probably Fail



**Statistics show that your data science model
won't make it into production**





**87% of data science projects
never make it into production**

- VentureBeat AI





**77% of businesses say that
business adoption of big data and
AI initiatives represent a
challenge for their organizations**

- NewVantage





80% of AI projects will remain alchemy, run by wizards whose talents will not scale in the organization

- Gartner



Why Do Data Science Projects Fail?

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Sometimes they should fail

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Data issues

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Data issues

Lack of leadership buy-in/understanding

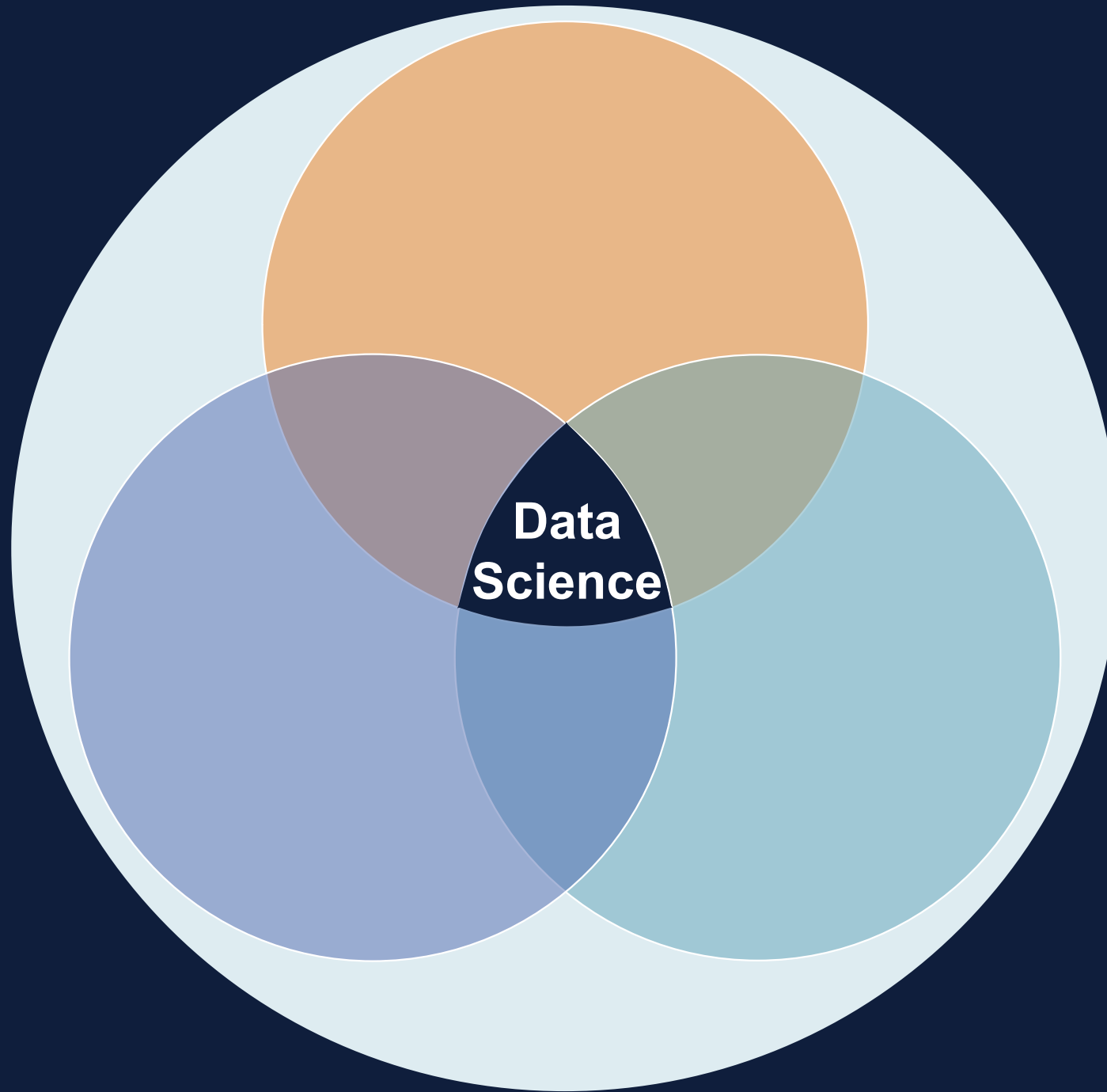
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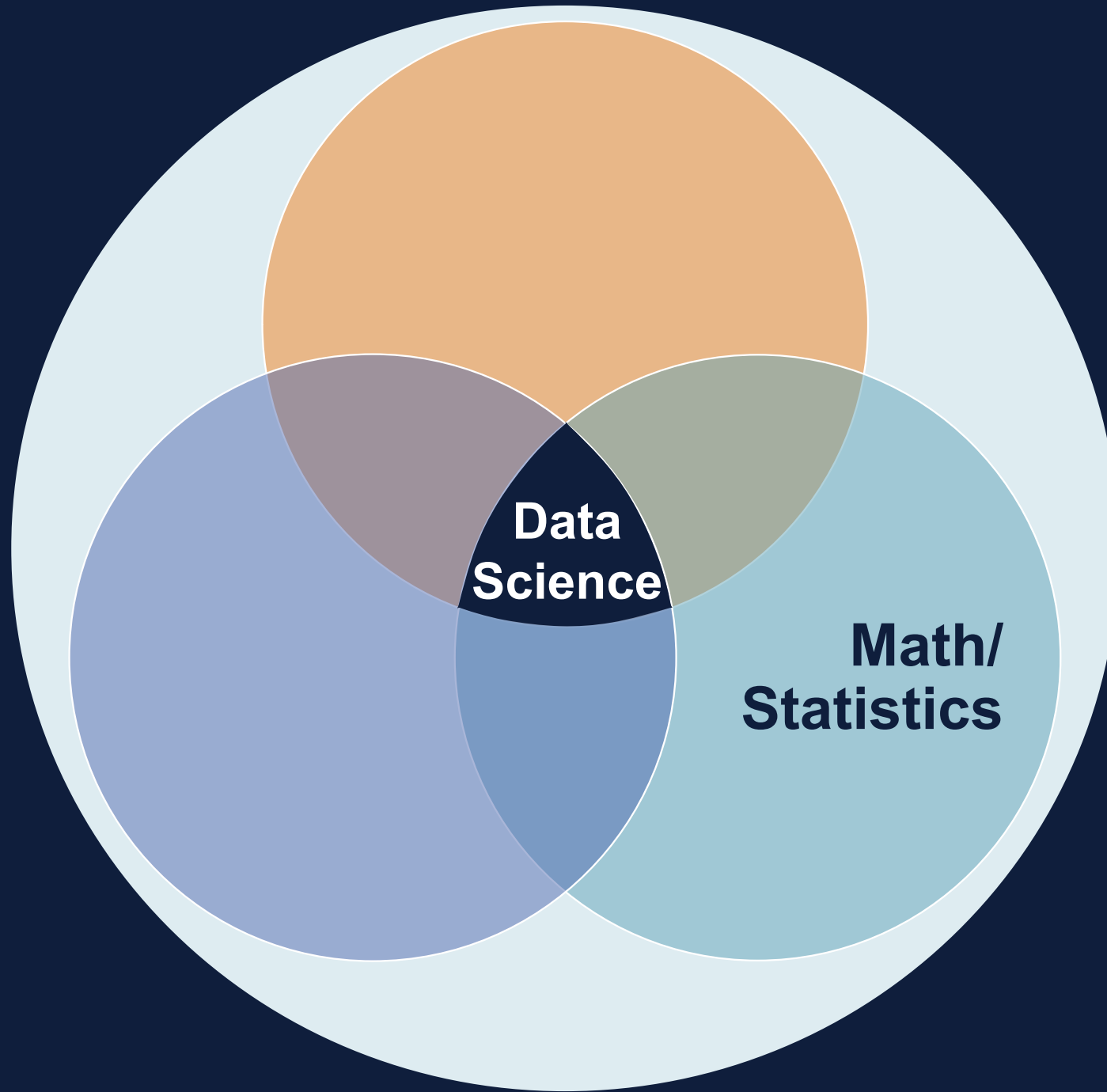
Sometimes they should fail

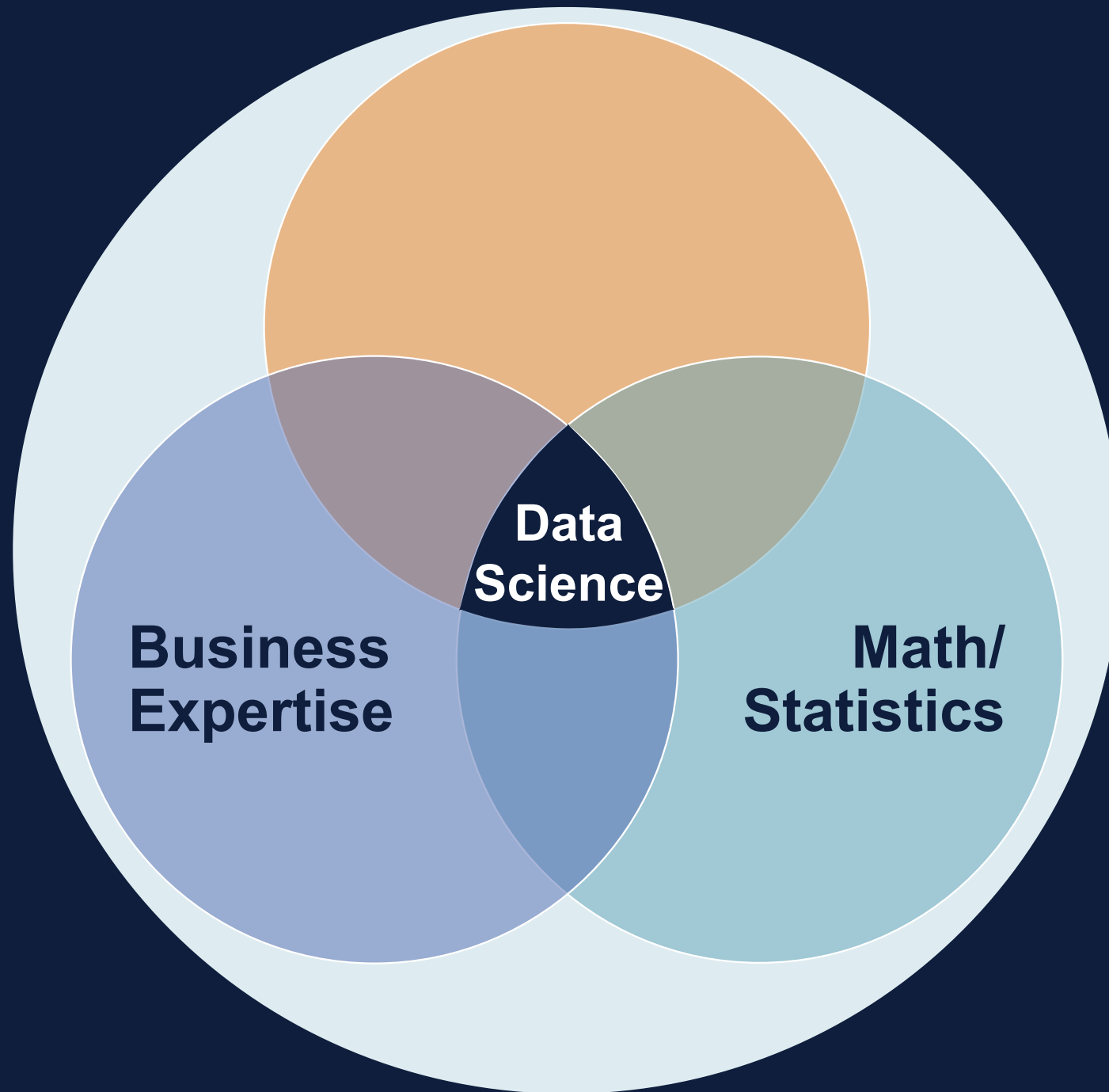
Data issues

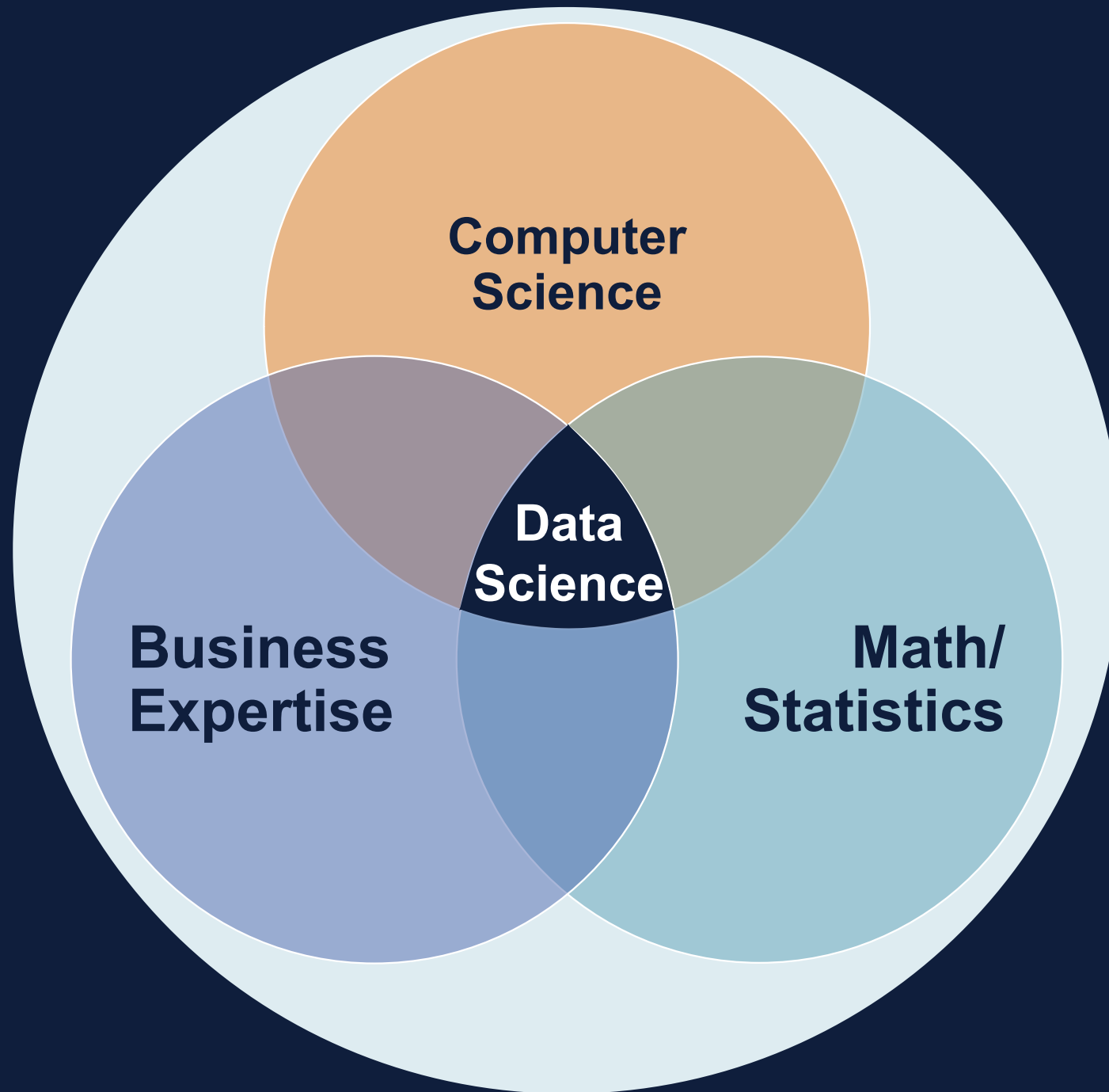
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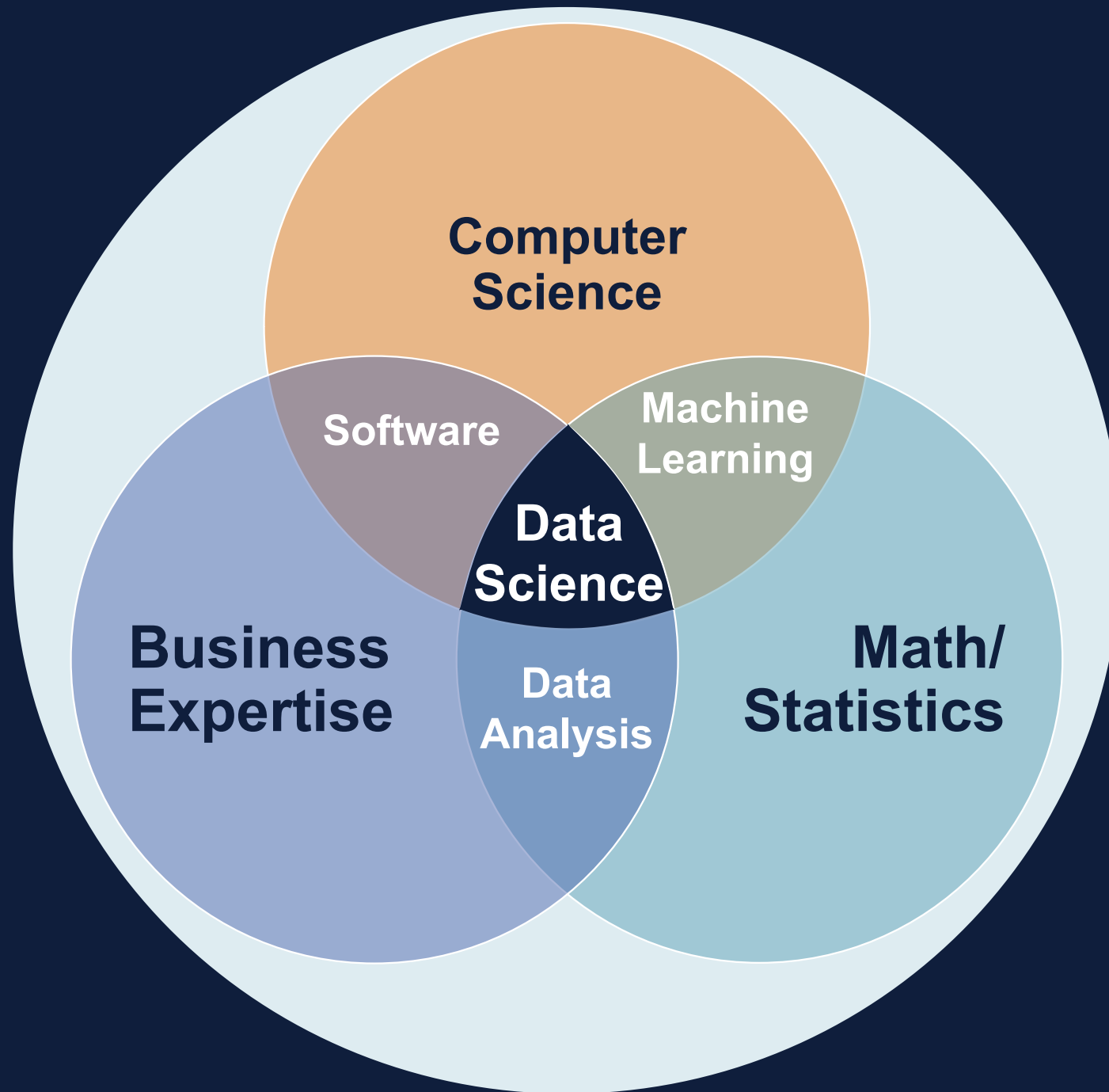
Can't get model into production

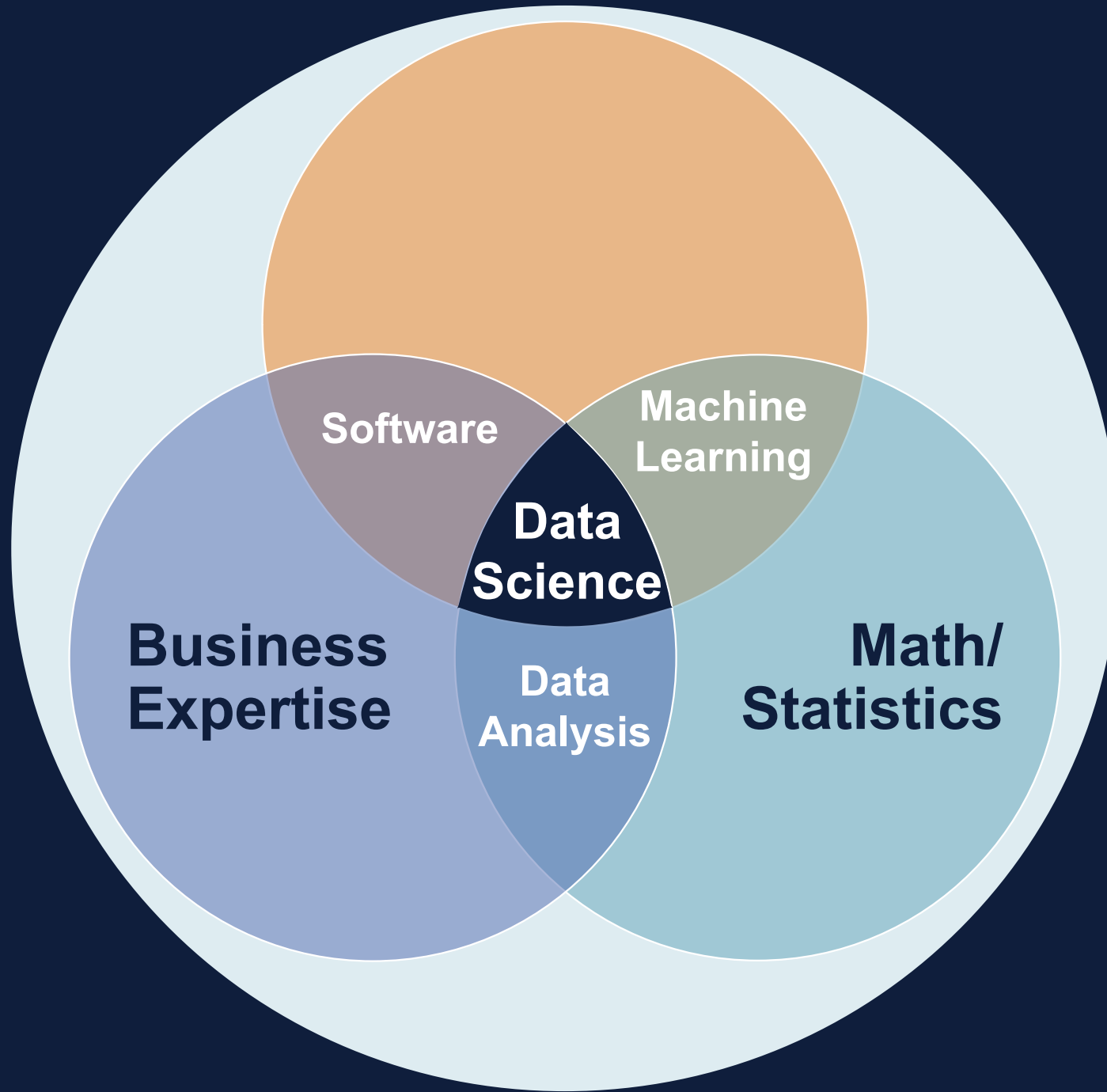


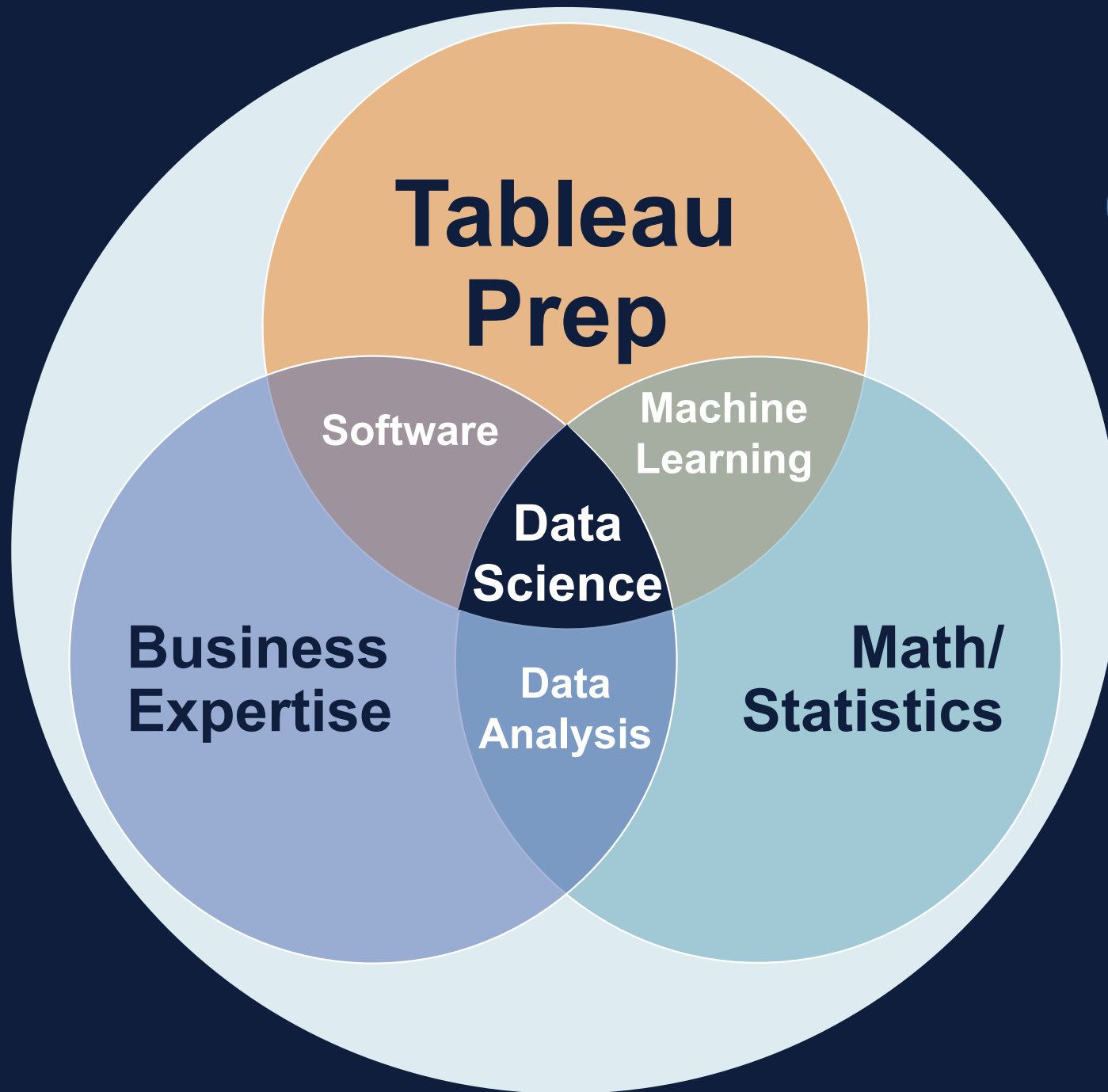












Predicting Customer Renewal

Predicting Customer Renewal



**Customer
makes a
purchase**

Predicting Customer Renewal



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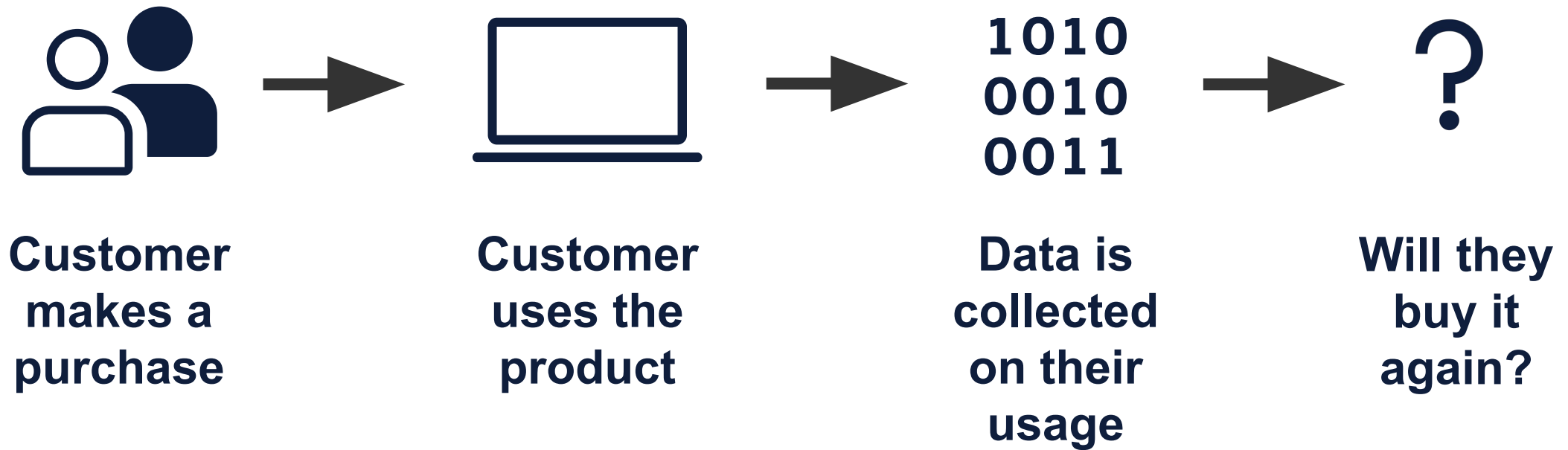


**Customer
uses the
product**

Predicting Customer Renewal



Predicting Customer Renewal



Predicting The Future

Predicting The Future ... with 3 Simple Ingredients

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- **Data about the past**

Predicting The Future

... with 3 Simple Ingredients

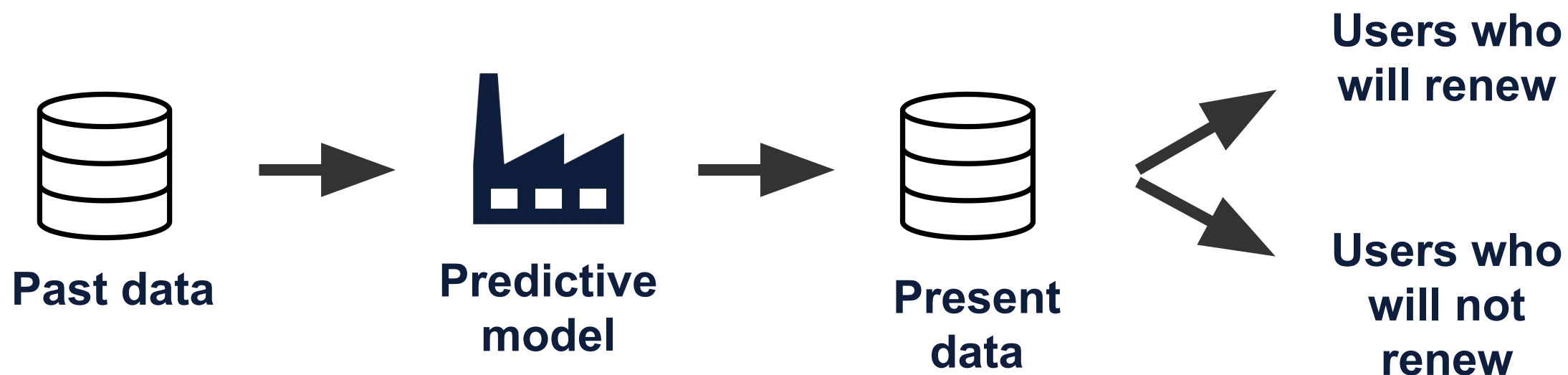
- **Data about the past**
- **Data about the present**

Predicting The Future

... with 3 Simple Ingredients

- **Data about the past**
- **Data about the present**
- **Predictive model**

Predicting The Future ... with 3 Simple Ingredients



Predicting Customer Renewal

- Data about the past
- Data about the present
- Predictive model

Past Data

# Customer ID	Abc Outcome	# Pct Active Days	# Watch Hours	# Profiles	# Years Customer
7	Did not Renew	70%	146.622	2	6
14	Did not Renew	59%	258.284	1	7
33	Did not Renew	67%	166.236	1	1
37	Renewed	100%	384.249	4	2
86	Did not Renew	64%	131.440	1	3
100	Did not Renew	71%	110.971	2	1
110	Did not Renew	65%	149.879	1	4
136	Did not Renew	68%	155.361	2	1
138	Did not Renew	66%	251.167	2	5
154	Renewed	71%	94.895	1	1

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Predicting Customer Renewal

- Data about the past
- Data about the present
- Predictive model

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# Customer ID	# Pct Active Days	# Watch Hours	# Profiles	# Years Customer
14	71%	82.81	1	5
35	60%	318.66	1	6
62	66%	283.33	1	4
97	61%	259.84	2	5
110	64%	304.36	2	3
133	100%	54.30	2	3
140	60%	159.85	1	3
147	56%	126.04	2	10
160	64%	172.31	2	1
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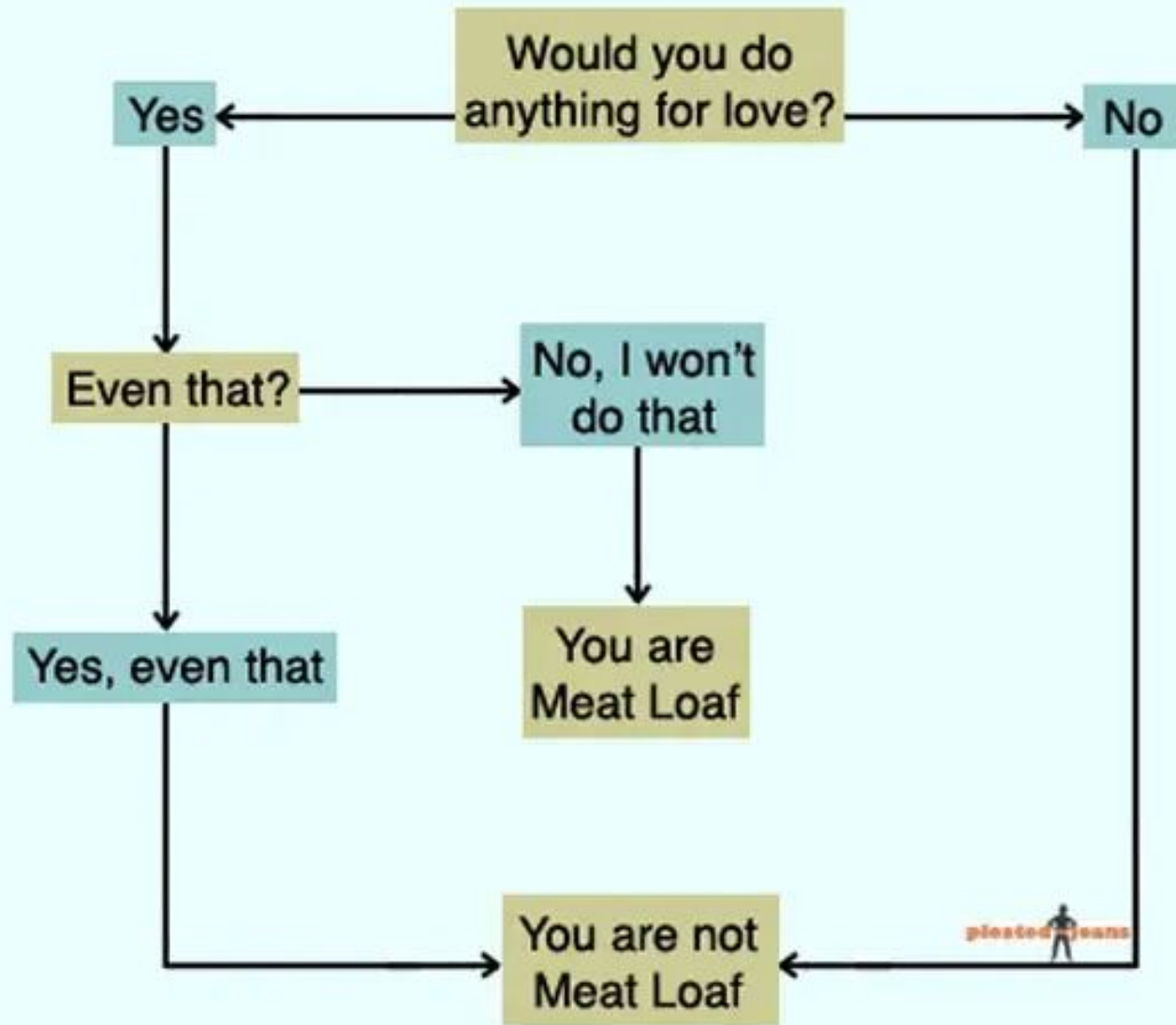
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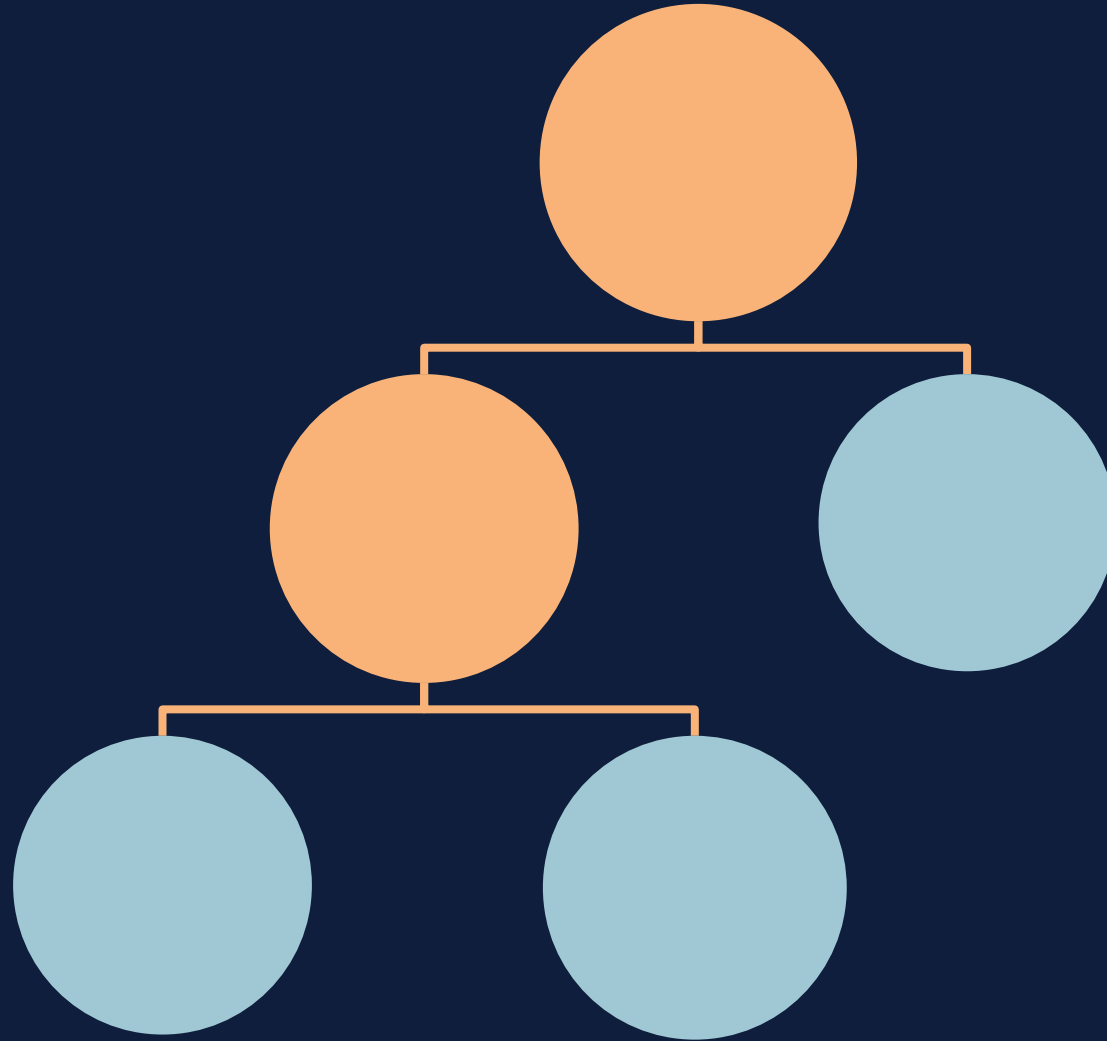
Predicting Customer Renewal

- Data about the past
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- **Predictive model**

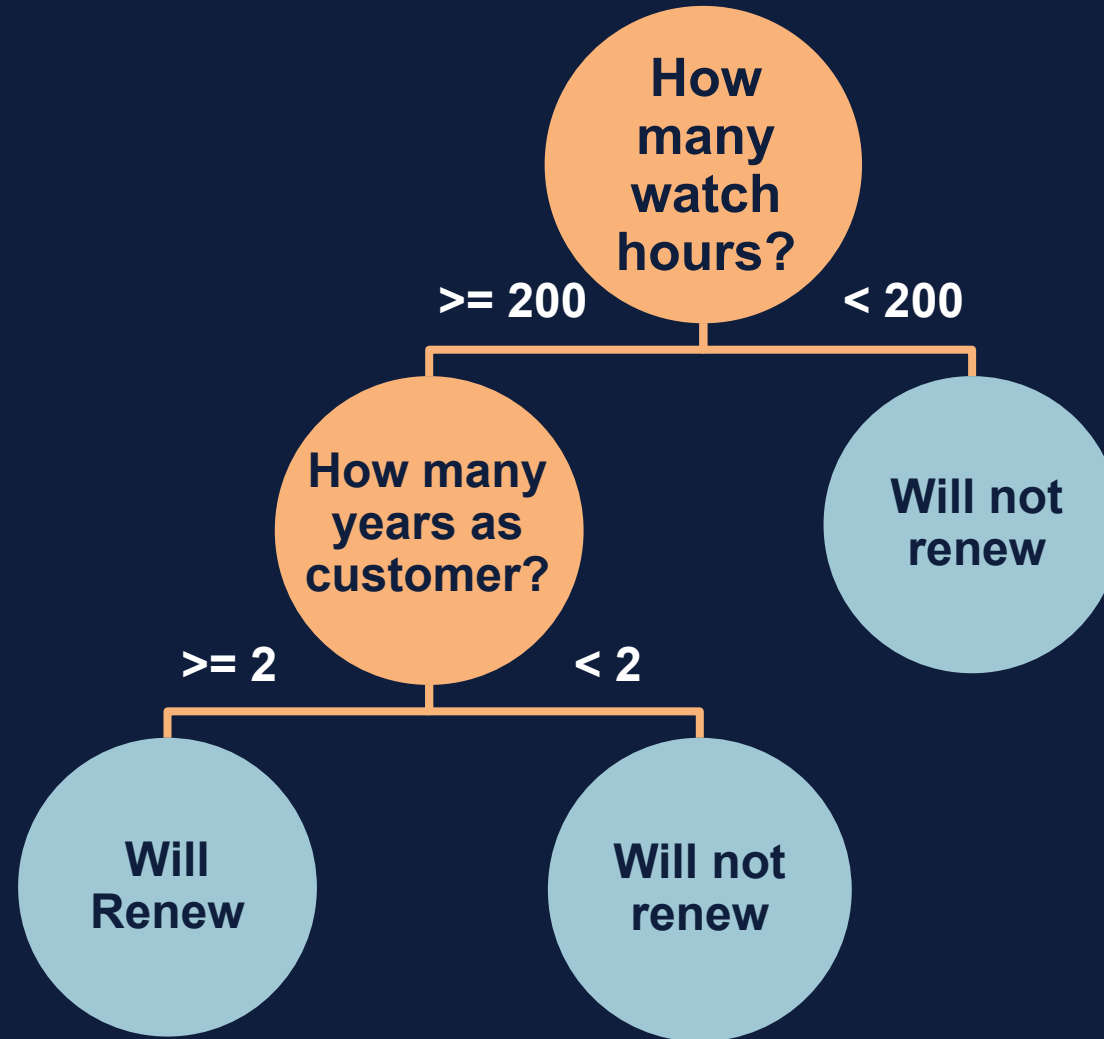
Predictive Model



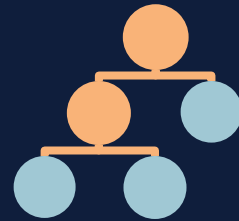
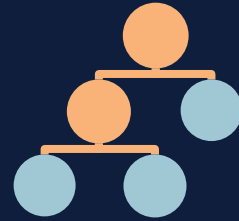
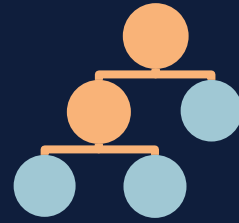
Random Forest Model



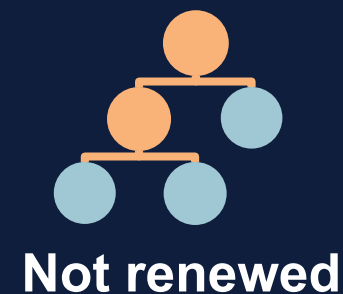
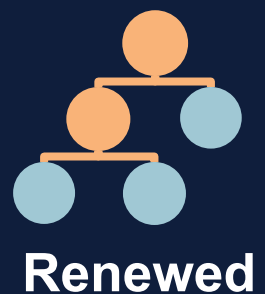
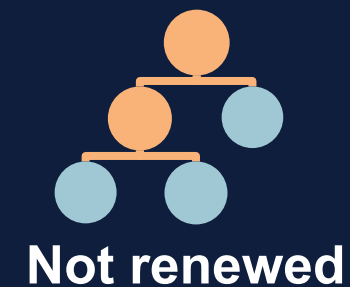
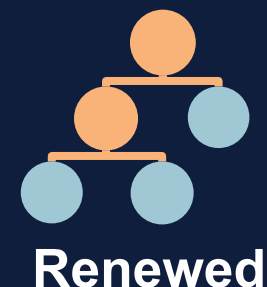
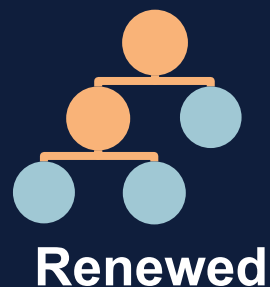
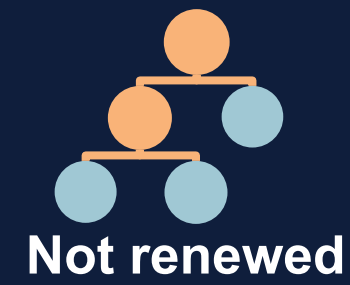
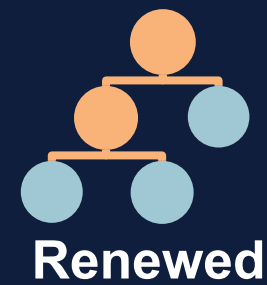
Random Forest Model



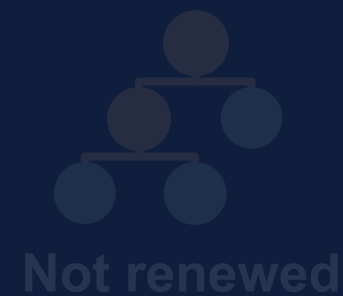
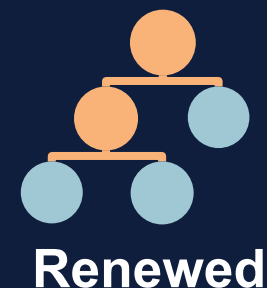
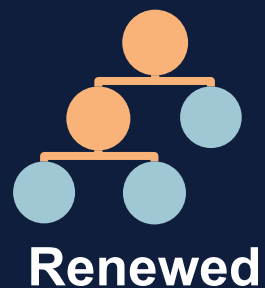
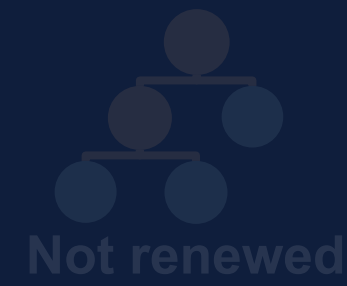
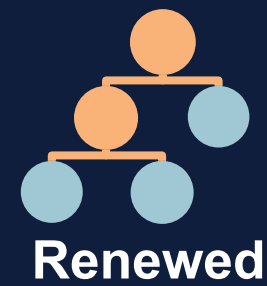
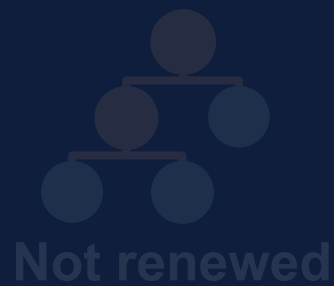
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Random Forest Model



Random Forest Model



Predicting Customer Renewal

- Data about the past
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BuildData



ScoreData



R Code

R Code

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fit_predict <- function(full_data){  
  library(randomForest)  
  full_data$outcome <- as.factor(full_data$outcome)  
  
  build_rf <- randomForest(outcome ~ pct_active_days + watch_hours + profiles +  
    years_customer,  
                           data = full_data[full_data$Purpose == 'Model Building',])  
  
  full_data$churn_probs[full_data$Purpose == 'Scoring'] <-  
    predict(build_rf, full_data[full_data$Purpose == 'Scoring',], type = "prob")[,1]  
  
  full_data$Predicted <- ifelse(full_data$churn_probs >= 0.5,  
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  full_data$churn_probs[full_data$Purpose == 'Scoring'] <-  
    predict(build_rf, full_data[full_data$Purpose == 'Scoring',], type = "prob")[,1]  
  
  full_data$Predicted <-  
    ifelse(full_data$churn_probs >= 0.5, 'Predict_NoRenew',  
ifelse(full_data$churn_probs < 0.5, 'Predict_Renew', NA))  
  
  output_data <- subset(full_data, Purpose == 'Scoring',  
                        select = c(customer_id, pct_active_days, watch_hours, profiles,  
years_customer, churn_probs, Predicted))  
  
  return(output_data)  
}
```

R Code

```
fit_predict <- function(full_data){  
  library(randomForest)  
  
  full_data$outcome <- as.factor(full_data$outcome)  
  
  build_rf <- randomForest(outcome ~ pct_active_days + watch_hours + profiles +  
years_customer,  
                           data = full_data[full_data$Purpose == 'Model Building',])  
  
  full_data$churn_probs[full_data$Purpose == 'Scoring'] <-  
    predict(build_rf, full_data[full_data$Purpose == 'Scoring',], type = "prob")[,1]  
  
  full_data$Predicted <- ifelse(full_data$churn_probs >= 0.5,  
                               'Predict_NoRenew', ifelse(full_data$churn_probs < 0.5,  
                                                         'Predict_Renew', NA))  
  
  output_data <- subset(full_data, Purpose == 'Scoring',  
    select = c(customer_id, pct_active_days, watch_hours, profiles,  
               years_customer, churn_probs, Predicted))  
  
  return(output_data)  
}
```

R Code

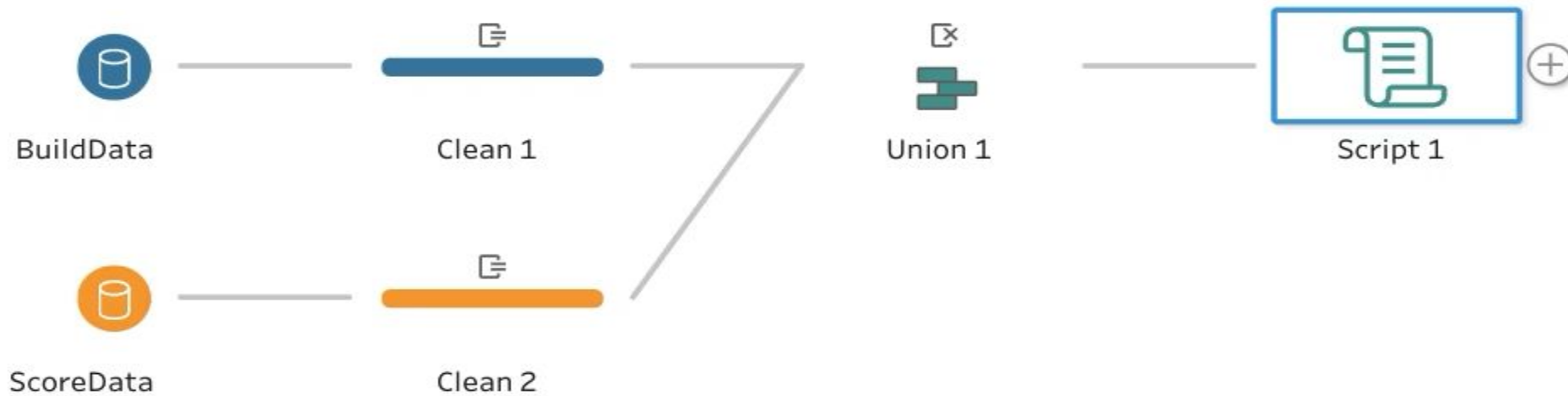
```
fit_predict <- function(full_data){  
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  full_data$outcome <- as.factor(full_data$outcome)  
  
  build_rf <- randomForest(outcome ~ pct_active_days + watch_hours + profiles +  
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  output_data <- subset(full_data, Purpose == 'Scoring',  
                        select = c(customer_id, pct_active_days, watch_hours, profiles,  
                                   years_customer, churn_probs, Predicted))  
  
  return(output_data)  
}
```


R Code

```
getOutputSchema <- function() {  
  return (data.frame(  
    Customer_ID = prep_string(),  
    Percent_Active_Days = prep_decimal(),  
    Watch_Hours = prep_decimal(),  
    Profiles = prep_decimal(),  
    Years_Customer = prep_decimal(),  
    Churn_Probability = prep_decimal(),  
    Predicted_Outcome = prep_string()));  
}
```

**Script 1** 7 Fields 30K Rows

Filter Values...

Create Calculated Field...



Search



Settings

Changes (0)

Connection type

- ☒ Rserve
- ☐ Tableau Python (TabPy) Server

Server

Connection to localhost:6311

Connect to Rserve Server

File Name

No file selected.

Browse

Function Name

No function name provided.

To generate an output file with different columns, include a schema function called "getOutputSchema" that defines the columns that you want to include. [Learn more](#)

Abc

Purpose 2

Model Building

Scoring

Abc

outcome 3

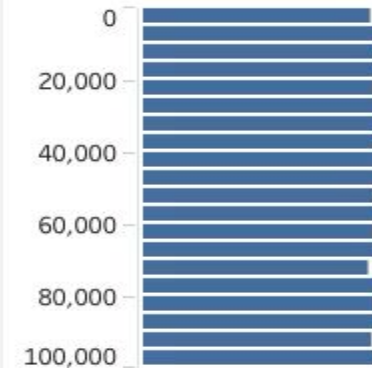
null

Did not Renew

Renewed

#

customer_id 28K



#

pct_active_days 5K



#

watch_h



Purpose

outcome

customer_id

pct_active_days

watch_hours

profiles

years_customer

R and Python Scripts in Tableau Prep

R and Python Scripts in Tableau Prep

- Any library or model

R and Python Scripts in Tableau Prep

- Any library or model
- Easy to schedule jobs

R and Python Scripts in Tableau Prep

- Any library or model
- Easy to schedule jobs
- Fresh output data

Who is predicted to renew?

49% of subscription are at risk of not renewing



Asia and Rest of World over-index on predicted non-renewals



Those predicted to renew have a higher percentage of login days



... have more user profiles



... and have been customers for longer.



Predicted Renewals

Customer ID	Predicted Outcome	Churn Probability	Percent Active Days	Profiles	Years Customer
14	Renewal	0.14	71%	1	5
35	No Renewal	0.85	60%	1	6
62	Renewal	0.41	66%	1	4
97	No Renewal	0.77	61%	2	5
110	Renewal	0.35	64%	2	3
133	Renewal	0.34	100%	2	3
140	No Renewal	0.91	60%	1	3
147	Renewal	0.34	56%	2	10
160	No Renewal	0.76	64%	2	1
165	Renewal	0.00	70%	2	1
175	Renewal	0.29	75%	1	4
189	Renewal	0.10	73%	1	5

Predicted Renewals

Customer ID	Predicted Outcome	Churn Probability	Percent Active Days	Profiles	Years Customer
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147	Renewal	0.34	56%	2	10
160	No Renewal	0.76	64%	2	1
165	Renewal	0.00	70%	2	1
175	Renewal	0.29	75%	1	4
189	Renewal	0.10	73%	1	5

Predicted Renewals

Over / Under based on global average

Customer ID	Predicted Outcome	Percent Active Days	Profiles	Years Customer
14	Renewal	▲	▼	▲
35	No Renewal	▼	▼	▲
62	Renewal	▲	▼	▲
97	No Renewal	▼	▲	▲
110	Renewal	▼	▲	▼
133	Renewal	▲	▲	▼
140	No Renewal	▼	▼	▼
147	Renewal	▼	▲	▲
160	No Renewal	▼	▲	▼
		▲	▲	▼

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110	Renewal	▼	▲	▼
133	Renewal	▲	▲	▼
140	No Renewal	▼	▼	▼
147	Renewal	▼	▲	▲
160	No Renewal	▼	▲	▼
		▲	▲	▼

Why Do Data Science Projects Fail?

Why Do Data Science Projects Fail?

Sometimes they should fail

Data issues

Lack of leadership buy-in/understanding

Can't get model into production

How Do Data Science Projects NOT Fail?

Focus on impactful models

How Do Data Science Projects NOT Fail?

Focus on impactful models

Work as a data community to solve data issues

How Do Data Science Projects NOT Fail?

Focus on impactful models

Work as a data community to solve data issues

Effective communication and “selling” of models

How Do Data Science Projects NOT Fail?

Focus on impactful models

Work as a data community to solve data issues

Effective communication and “selling” of models

Use Tableau Prep + R/Python to get models into production

THANK YOU

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