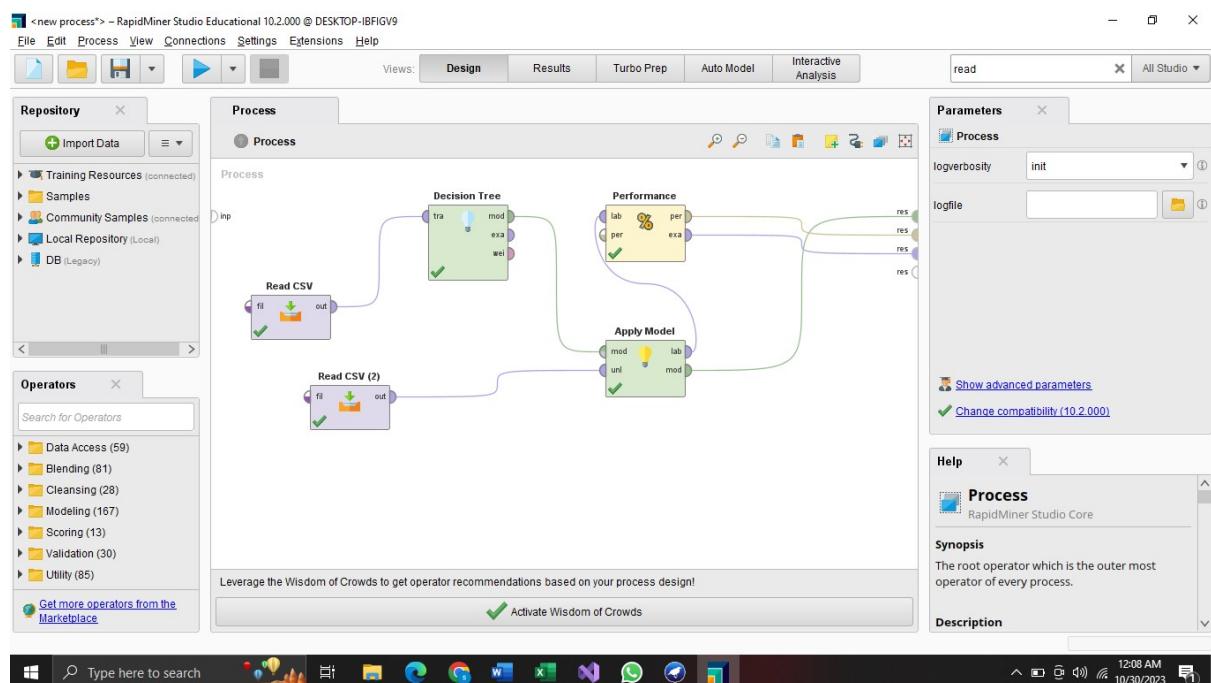


SALWA UMAR(BSCS –6A)

DATA MINING

ASSIGNMENT(decision tree, random forest, naive bayes result report)

Decision Tree



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File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Interactive Analysis

spl data All Studio

Result History ExampleSet (Apply Model) PerformanceVector (Performance) Tree (Decision Tree)

Data Statistics Visualizations Annotations

Open in Turbo Prep Auto Model Filter (9 / 9 examples): all

Row No.	Score range	prediction(...)	confidence(...)	confidence(...)	confidence(...)	Venue city	Ground	Opposite te...	Pitch	Weather
1	poor runs	poor runs	0.500	0.500	0	Colombo	R.Premadas...	Sri Lanka	Grass pitch	Overcast
2	poor runs	poor runs	0.500	0.500	0	Colombo	R.Premadas...	India	Grass pitch	Overcast
3	Good runs	poor runs	0.500	0.500	0	Karachi	National stad...	New Zealand	Flat pitch	Rainy
4	Good runs	poor runs	0.500	0.500	0	Rotterdam	Hazelaarweg	Netherland	Grass pitch	Overcast
5	Good runs	poor runs	0.500	0.500	0	Rotterdam	Hazelaarweg	Netherland	Grass pitch	Overcast
6	poor runs	poor runs	0.500	0.500	0	Multan	Multan cricket...	West Indies	Flat pitch	Sunny
7	Good runs	poor runs	0.500	0.500	0	Multan	Multan cricket...	West Indies	Flat pitch	Sunny
8	Excellent runs	poor runs	0.333	0.333	0.333	Birmingham	Edgbaston	England	Grass pitch	Sunny
9	poor runs	poor runs	0.500	0.500	0	Lords	Lord's cricket ...	England	Grass pitch	Sunny

ExampleSet (9 examples, 5 special attributes, 9 regular attributes)

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File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Interactive Analysis

spl data All Studio

Result History ExampleSet (Apply Model) PerformanceVector (Performance) Tree (Decision Tree)

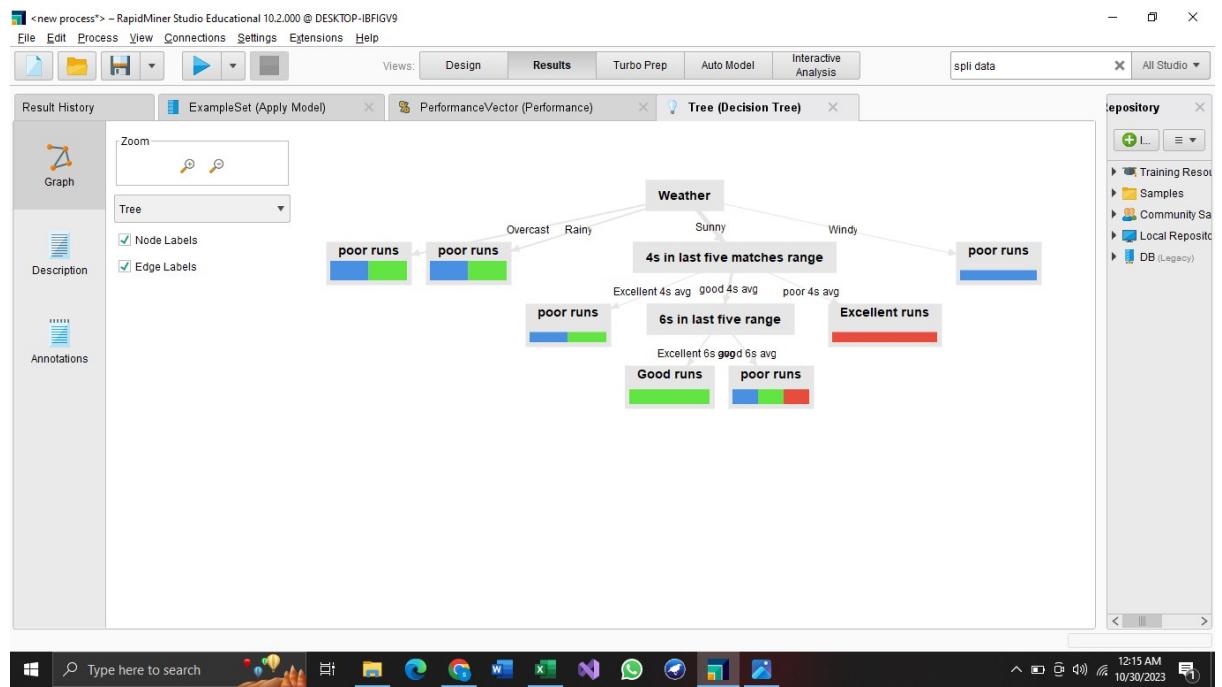
Performance Description Annotations

Criterion accuracy kappa

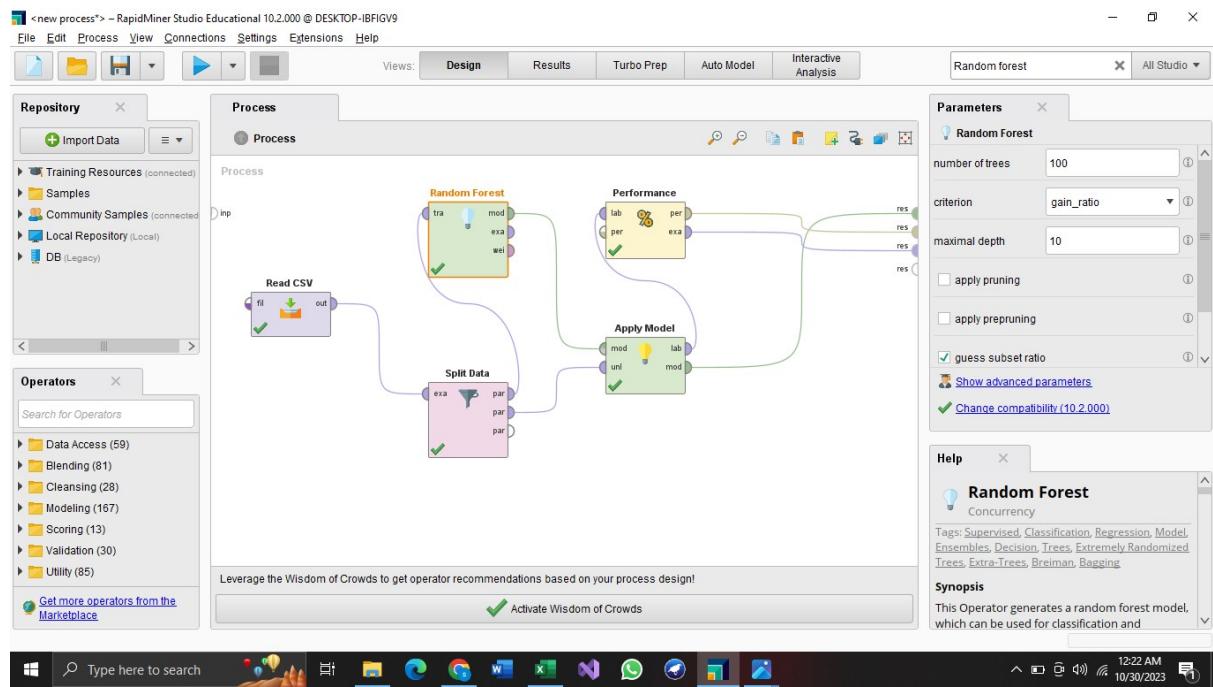
accuracy: 44.44%

Table View Plot View

	true poor runs	true Good runs	true Excellent runs	class precision
pred. poor runs	4	4	1	44.44%
pred. Good runs	0	0	0	0.00%
pred. Excellent runs	0	0	0	0.00%
class recall	100.00%	0.00%	0.00%	



RANDOM FOREST



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File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Interactive Analysis

Random forest All Studio

Result History

ExampleSet (Apply Model) PerformanceVector (Performance) Random Forest Model (Random Forest)

Data

Row No.	Score range	prediction(\$...)	confidence(...)	confidence(...)	confidence(...)	Venue city	Ground	Opposite te...	Pitch	Weather
1	poor runs	Good runs	0.276	0.647	0.076	Colombo	R.Premadas...	Sri lanka	Grass pitch	Overcast
2	poor runs	Good runs	0.276	0.682	0.042	Colombo	R.Premadas...	India	Grass pitch	Overcast
3	Good runs	Good runs	0.275	0.663	0.062	Karachi	National stad...	New Zealand	Flat pitch	Rainy
4	Good runs	Good runs	0.223	0.733	0.044	Rotterdam	Hazelaarweg	Netherland	Grass pitch	Overcast
5	Good runs	Good runs	0.189	0.774	0.037	Rotterdam	Hazelaarweg	Netherland	Grass pitch	Overcast
6	poor runs	Good runs	0.097	0.668	0.235	Multan	Multan cricket...	West Indies	Flat pitch	Sunny
7	Good runs	Good runs	0.093	0.789	0.119	Multan	Multan cricket...	West Indies	Flat pitch	Sunny
8	Excellent runs	poor runs	0.445	0.413	0.142	Birmingham	Edgbaston	England	Grass pitch	Sunny
9	poor runs	poor runs	0.462	0.422	0.116	Lords	Lord's cricket ...	England	Grass pitch	Sunny

ExampleSet (9 examples, 5 special attributes, 9 regular attributes)

Repository

- Training Resources
- Samples
- Community Samples
- Local Repository
- DB (Legacy)

RapidMiner Studio Educational 10.2.000 @ DESKTOP-IBFIGV9

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Interactive Analysis Random forest All Studio

Result History ExampleSet (Apply Model) PerformanceVector (Performance) Random Forest Model (Random Forest)

Criterion accuracy kappa

accuracy: 55.56%

	true poor runs	true Good runs	true Excellent runs	class precision
pred. poor runs	1	0	1	50.00%
pred. Good runs	3	4	0	57.14%
pred. Excellent runs	0	0	0	0.00%
class recall	25.00%	100.00%	0.00%	

repository

- Training Resources
- Samples
- Community Samples
- Local Repositories
- DB (Legacy)

RapidMiner Studio Educational 10.2.000 @ DESKTOP-IBFIGV9

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Interactive Analysis Random forest All Studio

Result History ExampleSet (Apply Model) PerformanceVector (Performance) Random Forest Model (Random Forest)

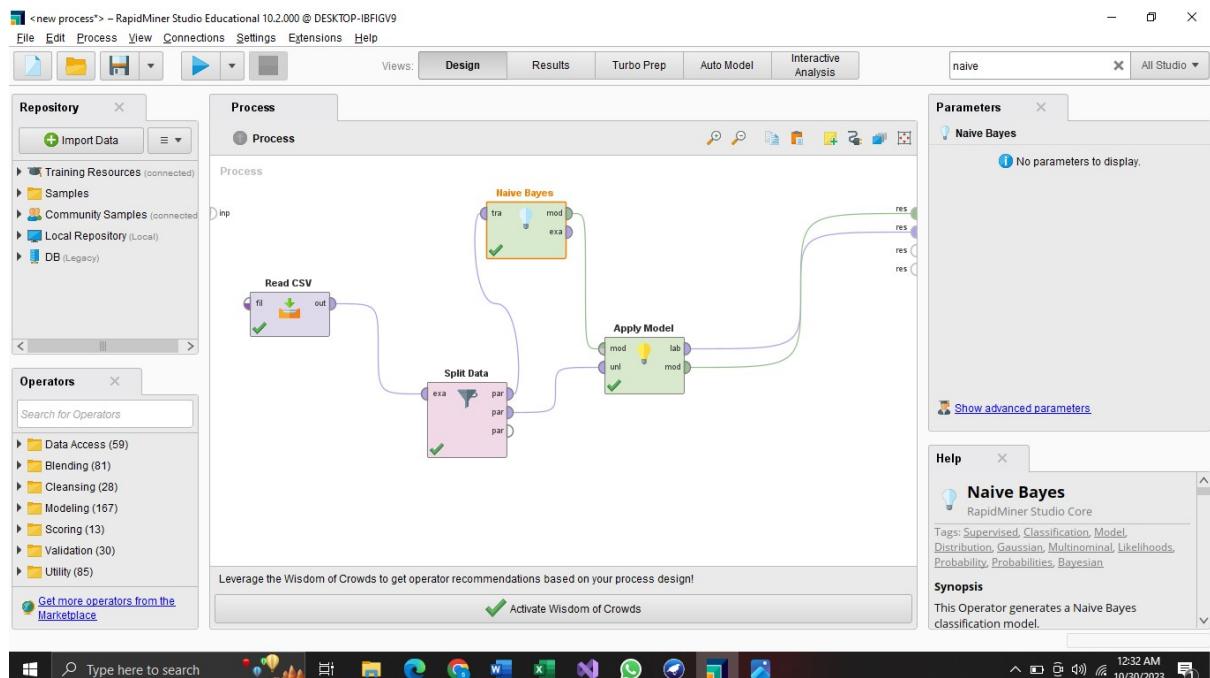
Tree Graph Description Annotations

Zoom Tree Node Labels Edge Labels

repository

- Training Resources
- Samples
- Community Samples
- Local Repositories
- DB (Legacy)

NAIVE BAYES



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File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Interactive Analysis

naive All Studio

Result History

ExampleSet (Apply Model) SimpleDistribution (Naive Bayes)

Data

Row No.	Score range	prediction(\$...)	confidence(...)	confidence(...)	confidence(...)	Venue city	Ground	Opposite te...	Pitch	Weather
1	poor runs	Good runs	0.147	0.853	0.000	Colombo	R.Premadas...	Sri lanka	Grass pitch	Overcast
2	poor runs	Good runs	0.003	0.997	0.000	Colombo	R.Premadas...	India	Grass pitch	Overcast
3	Good runs	poor runs	0.660	0.316	0.024	Karachi	National stad...	New Zealand	Flat pitch	Rainy
4	Good runs	Good runs	0.003	0.997	0.000	Rotterdam	Hazelaarweg	Netherland	Grass pitch	Overcast
5	Good runs	Good runs	0.001	0.999	0.000	Rotterdam	Hazelaarweg	Netherland	Grass pitch	Overcast
6	poor runs	Good runs	0.000	0.999	0.001	Multan	Multan cricket...	West Indies	Flat pitch	Sunny
7	Good runs	Good runs	0.000	1.000	0.000	Multan	Multan cricket...	West Indies	Flat pitch	Sunny
8	Excellent runs	poor runs	0.945	0.026	0.030	Birmingham	Edgbaston	England	Grass pitch	Sunny
9	poor runs	poor runs	0.940	0.060	0.000	Lords	Lord's cricket ...	England	Grass pitch	Sunny

Filter (9 / 9 examples): all

ExampleSet (9 examples, 5 special attributes, 9 regular attributes)

Repository

- Training Resources
- Samples
- Community Samples
- Local Repository
- DB (Legacy)

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<new process> – RapidMiner Studio Educational 10.2.000 @ DESKTOP-IBFIGV9

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Interactive Analysis

naive All Studio

Result History ExampleSet (Apply Model) SimpleDistribution (Naive Bayes)

SimpleDistribution

Description Distribution model for label attribute Score range

Simple Charts

Class poor runs (0.400)
9 distributions

Class Good runs (0.450)
9 distributions

Class Excellent runs (0.150)
9 distributions

Distribution Table

Annotations

repository

+ I... ▾

Training Resources Samples Community Samples Local Repository DB (Legacy)

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