Data instances: 1: Features: 69	294
Meta attributes: 2	
Condition: Curie T	
Matching data	
watering data	
Data instances: 9	94
Features: 54 Meta attributes: 2	
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Non-matching data	a
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Features: 68	
Meta attributes: 2	2
lect Columns	Thu Jul 26 18, 13:59
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nput data	
to Late Early, Relative Weighted Volume, Annealing Time (s) Resistivity, Permea	CAI, Total BP, Total GaGe, Total Late Transition, Total Early Transition, Relative to Fe SiCAI, Relative to Fe BP, Relative to Fe GaGe, Relative to Fe Early, Relative to Fe Late, R ative to Early SiCAI, Relative to Late SiCAI, Relative to Early BP, Relative to Late BP, Late Weighted Volume, Late Weighted Area, Late Weighted Mass, Late Mean Electrons, Early Weighted Area, Early Weighted Mass, Early Mean Electrons, Delta T0, Delta T1, Delta T2, Fe, Si, C, AI, B, P, Ga, Cu, V, Cr, Zr, Nb, Mo, W, Annealing temperature (K), Primary Crystallization Onset (K), Primary Crystallization Peak (K), Secondary Crystallization Peak (K), Ribbon Thickness (um), Coercivity, Curie Temp, Core Loss, Electrical ability, Magnetostriction, Magnetic Saturation, Grain Diameter, LogCoercivity, LogPermeability (total: 56 features)
Meta attributes: C	Composition ID, Reference DOI
Output data	
F4 0: NII-	Associated Association (IV) Primary County (IV
	Annealing temperature (K), Primary Crystallization Onset (K), Ribbon Thickness (um), Early Weighted Mass, Delta T0 Composition ID. Reference DOI
	Composition ID, Reference DOI
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Meta attributes: C Target: Curie Temp Removed: 48 (W,	Composition ID, Reference DOI p Relative to Late Early, Cu, Magnetostriction, Coercivity, P, Grain Diameter, Cr, Primary Crystallization Peak (K), Electrical Resistivity, Late Weighted Volume, Relative to Fe G
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Meta attributes: C Target: Curie Temp Removed: 48 (W, Delta T1, Total Earl LogPermeability, R	Composition ID, Reference DOI p Relative to Late Early, Cu, Magnetostriction, Coercivity, P, Grain Diameter, Cr, Primary Crystallization Peak (K), Electrical Resistivity, Late Weighted Volume, Relative to Fe Grly Transition, Relative to Early SiCAI, Relative to Fe BP, B, Total Late Transition, Relative to Early BP, Early Weighted Area, Relative to Fe Early, Permeability, LogCoercivity,
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Meta attributes: C Target: Curie Temp Removed: 48 (W, Delta T1, Total Earl LogPermeability, R Relative to Late Sid	Composition ID, Reference DOI p Relative to Late Early, Cu, Magnetostriction, Coercivity, P, Grain Diameter, Cr, Primary Crystallization Peak (K), Electrical Resistivity, Late Weighted Volume, Relative to Fe Grly Transition, Relative to Early SiCAI, Relative to Fe BP, B, Total Late Transition, Relative to Early BP, Early Weighted Area, Relative to Fe Early, Permeability, LogCoercivity, Relative to Fe SiCAI, Early Mean Electrons, Secondary Crystallization Peak (K), Relative to Fe Late, V, Late Mean Electrons, Late Weighted Mass, Delta T2, Annealing Time (CAI, Relative to Late BP, AI, Magnetic Saturation, Zr, Mo, Fe, Ga, Core Loss, Early Weighted Volume, C, Total BP, Total SiCAI, Total GaGe, Late Weighted Area)
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Meta attributes: C Target: Curie Temp Removed: 48 (W, Delta T1, Total Earl LogPermeability, R Relative to Late Sid	Composition ID, Reference DOI p Relative to Late Early, Cu, Magnetostriction, Coercivity, P, Grain Diameter, Cr, Primary Crystallization Peak (K), Electrical Resistivity, Late Weighted Volume, Relative to Fe Grly Transition, Relative to Early SiCAI, Relative to Fe BP, B, Total Late Transition, Relative to Early BP, Early Weighted Area, Relative to Fe Early, Permeability, LogCoercivity, Relative to Fe SiCAI, Early Mean Electrons, Secondary Crystallization Peak (K), Relative to Fe Late, V, Late Mean Electrons, Late Weighted Mass, Delta T2, Annealing Time (CAI, Relative to Late BP, AI, Magnetic Saturation, Zr, Mo, Fe, Ga, Core Loss, Early Weighted Volume, C, Total BP, Total SiCAI, Total GaGe, Late Weighted Area)
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Thu Jul 26 18, 13:58:57

Select Rows

Thu Jul 26 18, 14:00:02

Name: Tree

Model parameters

Pruning: at least two instances in leaves, at least four instances in internal nodes, maximum depth 6 Splitting: Stop splitting when majority reaches 95% (classification only)

Binary trees: Yes

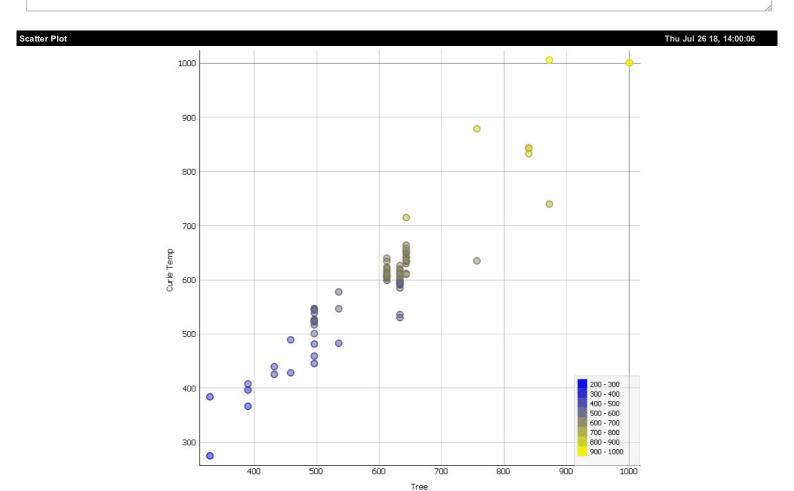
Data

Data instances: 94

Features: Si, Nb, Annealing temperature (K), Primary Crystallization Onset (K), Ribbon Thickness (um), Early Weighted Mass, Delta TO

Meta attributes: Composition ID, Reference DOI

Target: Curie Temp



Random Forest Thu Jul 26 18, 14:00:10

Color: Curie Temp

Name: Random Forest

Model parameters

Number of trees: 8

Maximal number of considered features: unlimited

Fixed random seed: 0

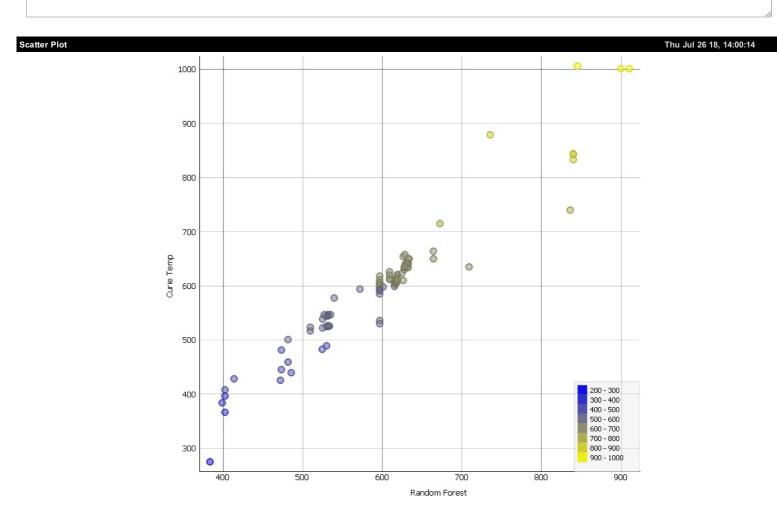
Maximal tree depth: 6 Stop splitting nodes with maximum instances: 4

Data

Data instances: 94

Features: Si, Nb, Annealing temperature (K), Primary Crystallization Onset (K), Ribbon Thickness (um), Early Weighted Mass, Delta T0

Meta attributes: Composition ID, Reference DOI Target: Curie Temp



Linear Regression Thu Jul 26 18, 14:00:18

Color: Curie Temp

Name: Linear Regression

Model parameters

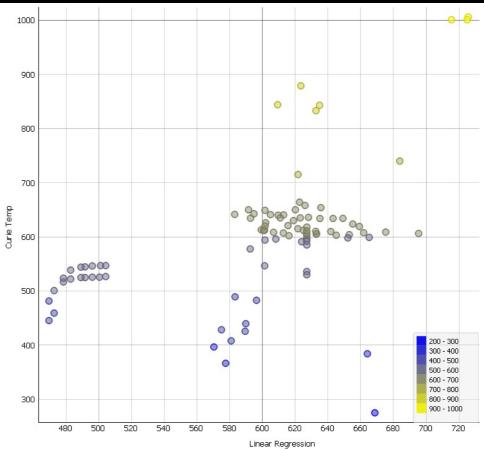
Regularization: No Regularization

Data

Data instances: 94

Features: Si, Nb, Annealing temperature (K), Primary Crystallization Onset (K), Ribbon Thickness (um), Early Weighted Mass, Delta T0 Meta attributes: Composition ID, Reference DOI Target: Curie Temp

Scatter Plot Thu Jul 26 18, 14:00:22



Color: Curie Temp

kNN Thu Jul 26 18, 14:00:29

Name: kNN

Model parameters

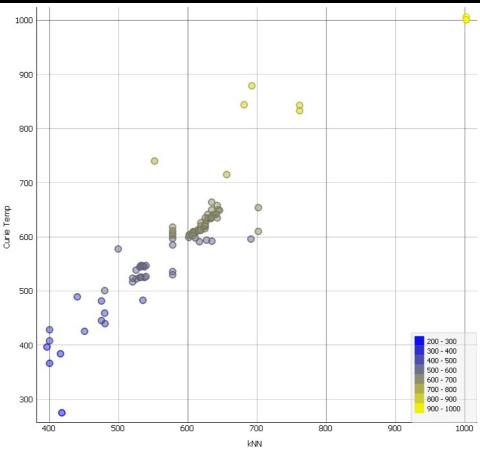
Number of neighbours: 3 Metric: Euclidean Weight: Uniform

Data

Data instances: 94

Features: Si, Nb, Annealing temperature (K), Primary Crystallization Onset (K), Ribbon Thickness (um), Early Weighted Mass, Delta T0 Meta attributes: Composition ID, Reference DOI Target: Curie Temp

Scatter Plot Thu Jul 26 18, 14:00:34



Color: Curie Temp

Neural Network Thu Jul 26 18, 14:00:39

Name: Neural Network

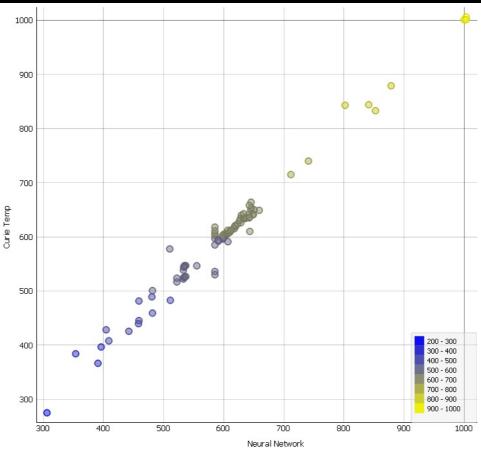
Model parameters

Hidden layers: 40, 20, 10 Activation: ReLu Solver: Adam Alpha: 1.0 Max iterations: 5000

Data

Data instances: 94
Features: Si, Nb, Annealing temperature (K), Primary Crystallization Onset (K), Ribbon Thickness (um), Early Weighted Mass, Delta TO
Meta attributes: Composition ID, Reference DOI
Target: Curie Temp

Scatter Plot Thu Jul 26 18, 14:01:08



Color: Curie Temp

SVM Thu Jul 26 18, 14:01:12

Name: SVM

Model parameters

SVM type: v-SVM, v=0.499999999999994, C=1.900000000000000000004 **Kernel:** Linear

Numerical tolerance: 0.001

Iteration limt: 5000

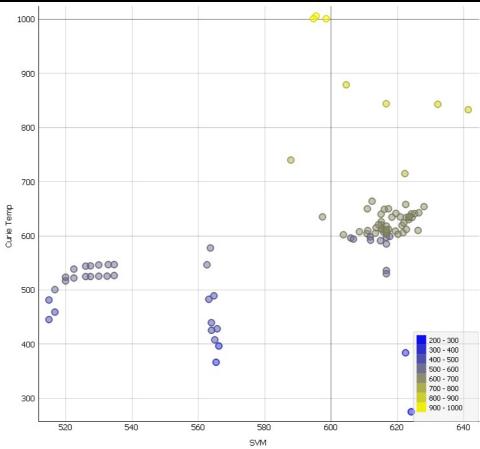
Data

Data instances: 94

Features: Si, Nb, Annealing temperature (K), Primary Crystallization Onset (K), Ribbon Thickness (um), Early Weighted Mass, Delta T0 Meta attributes: Composition ID, Reference DOI

Target: Curie Temp

Scatter Plot Thu Jul 26 18, 14:01:19



Color: Curie Temp