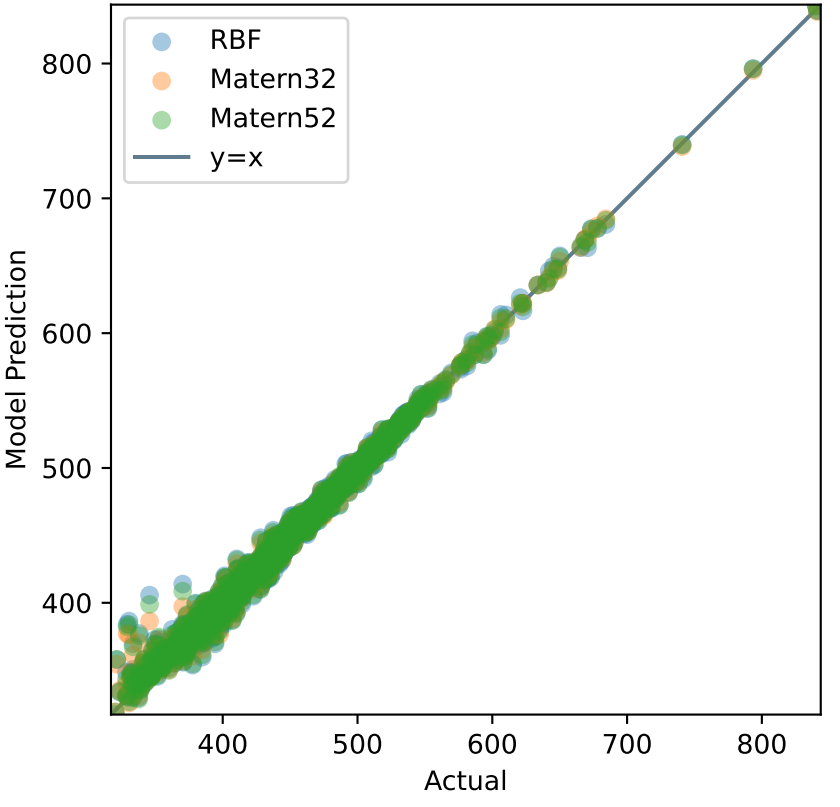
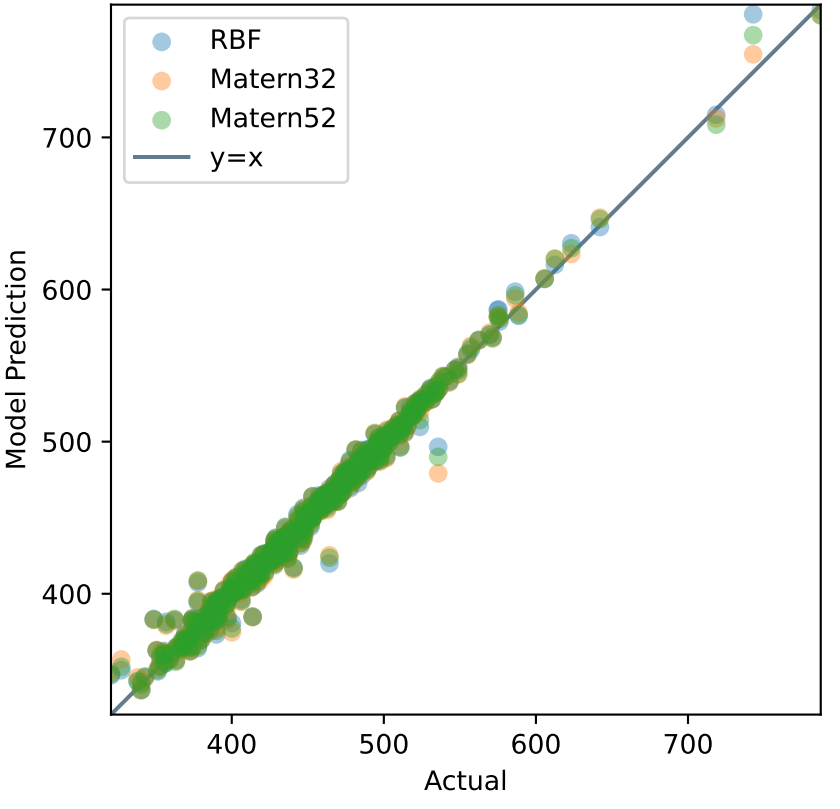
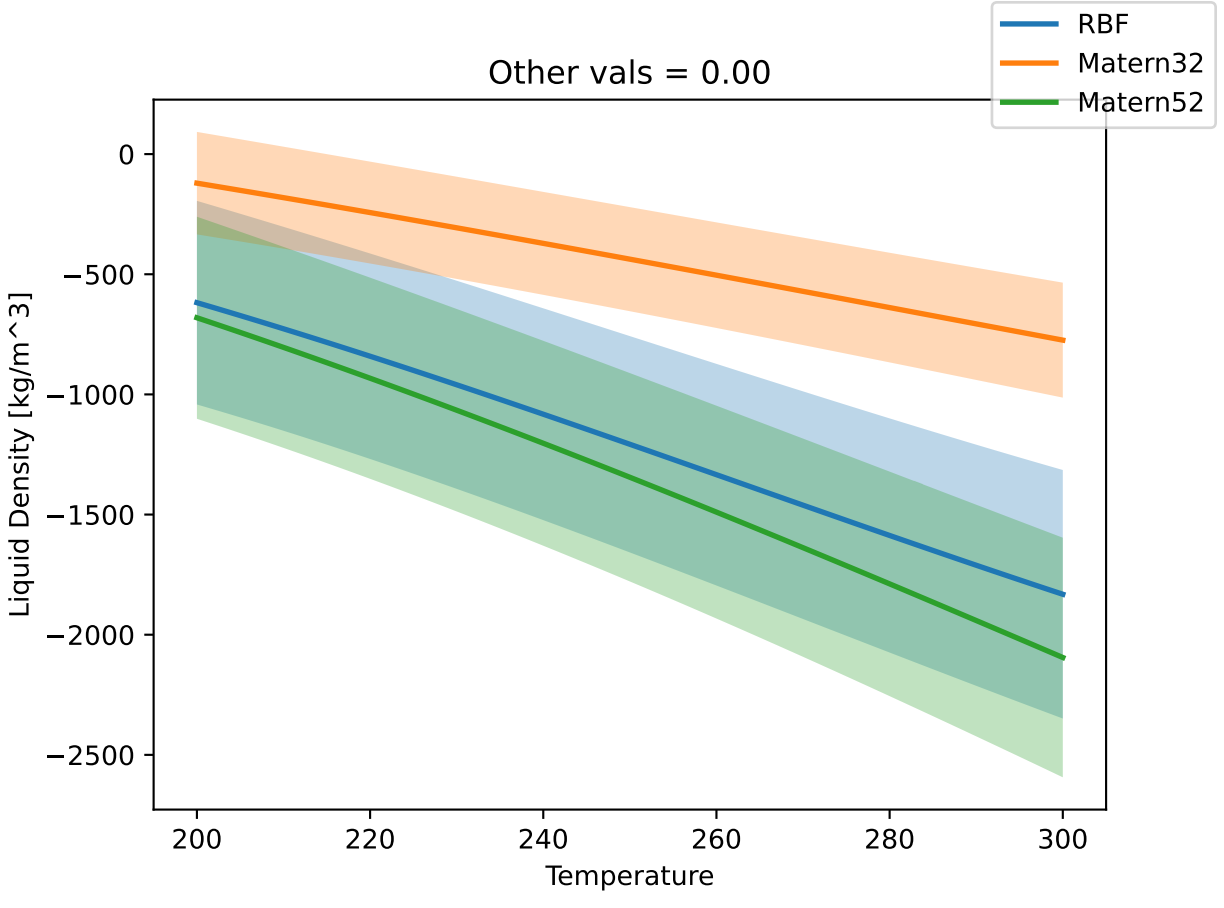
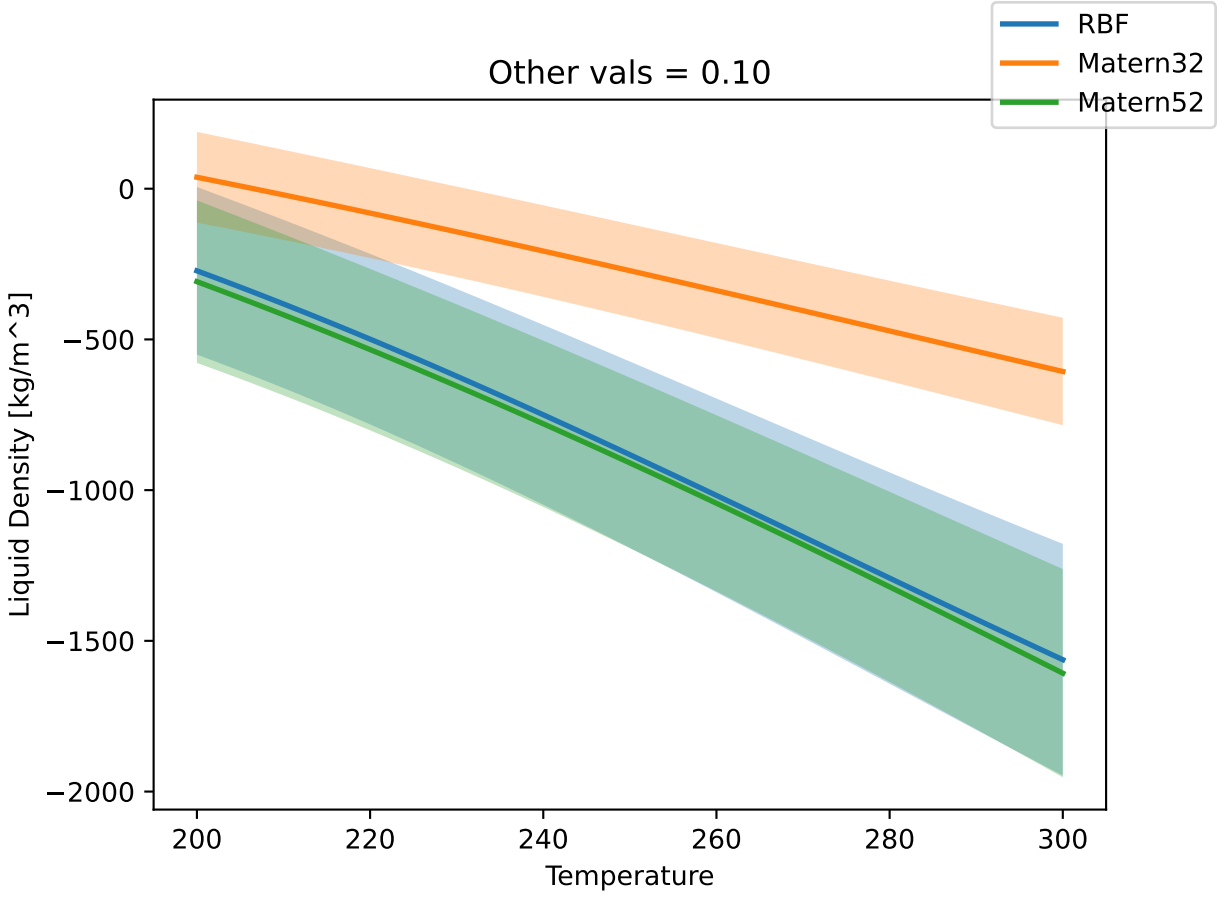
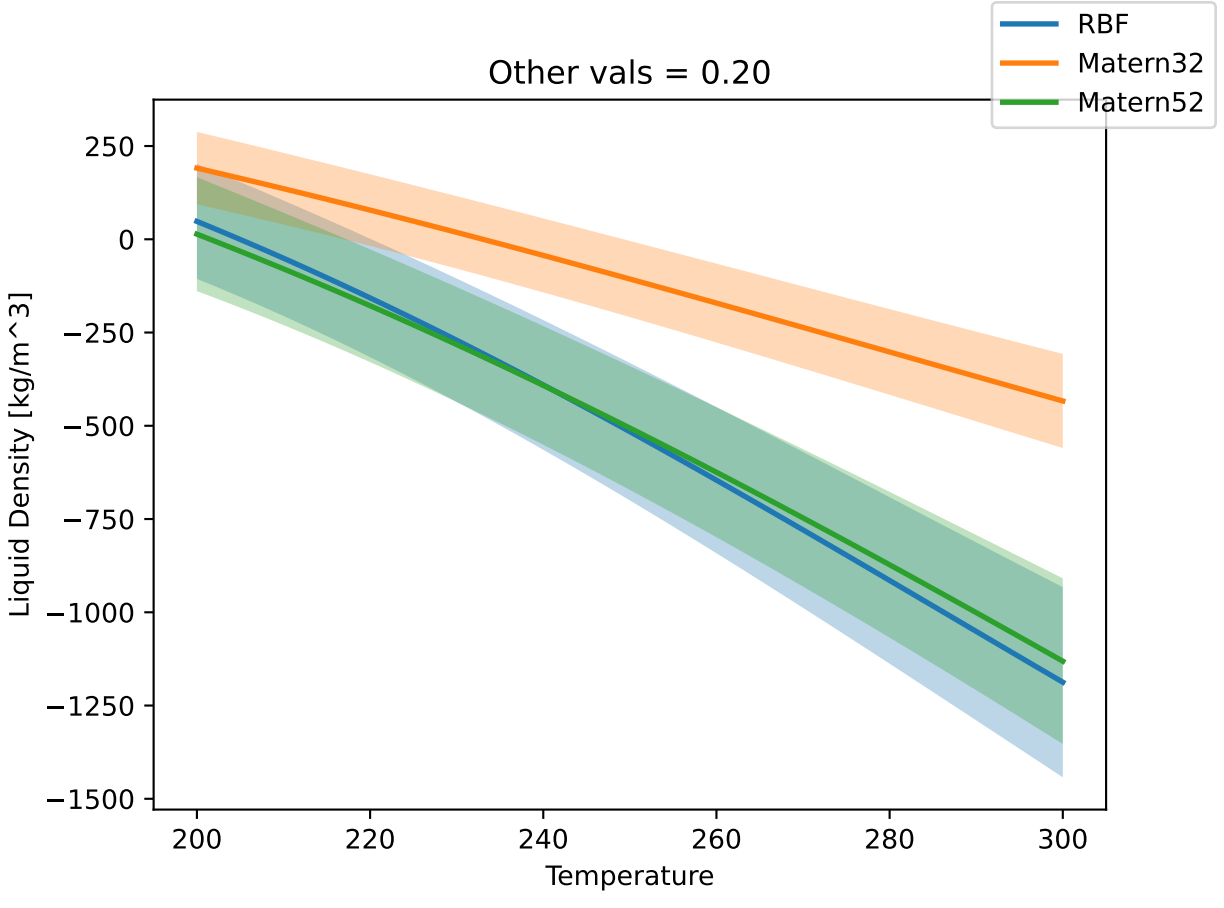
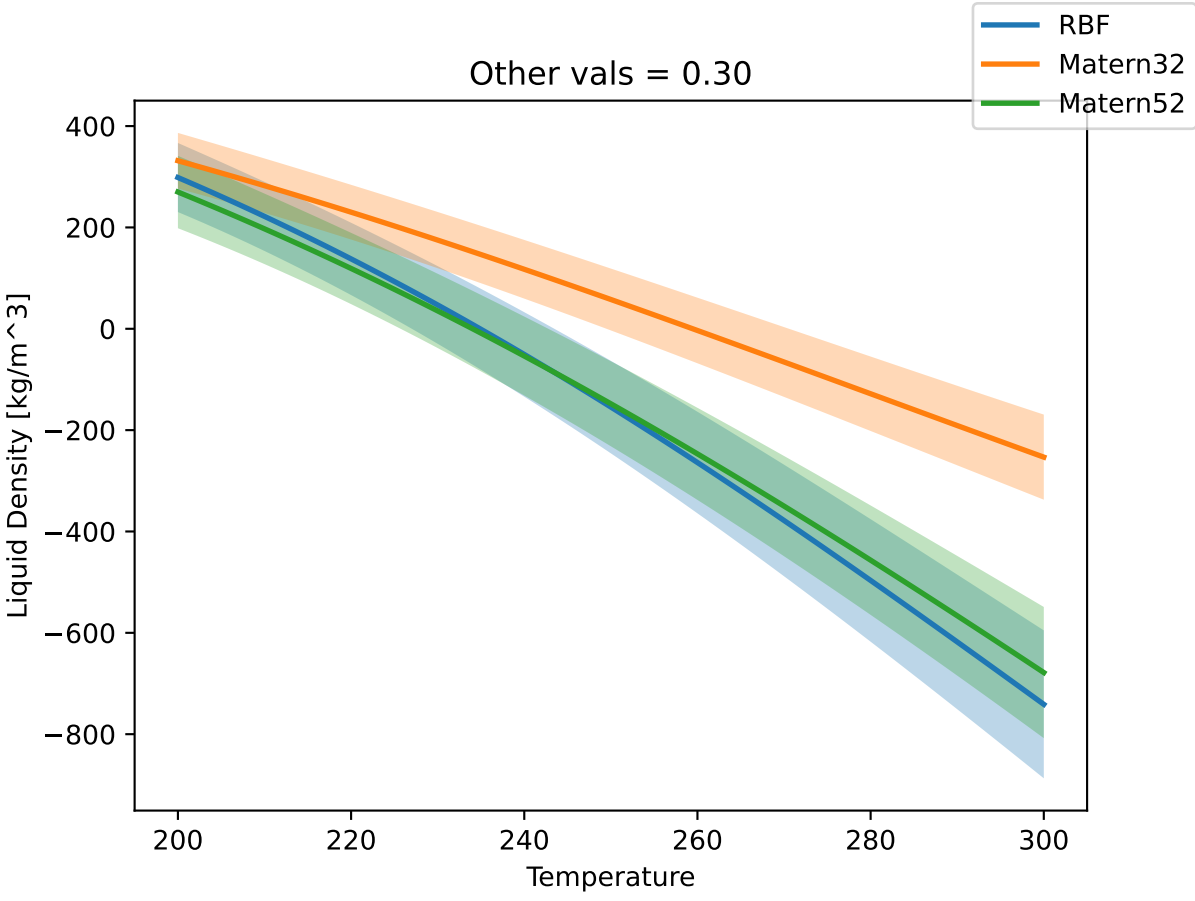

RBF
Matern32
Matern52
y=x
800
700
600
500
400
Model Prediction
400
500
600
700
800
Actual

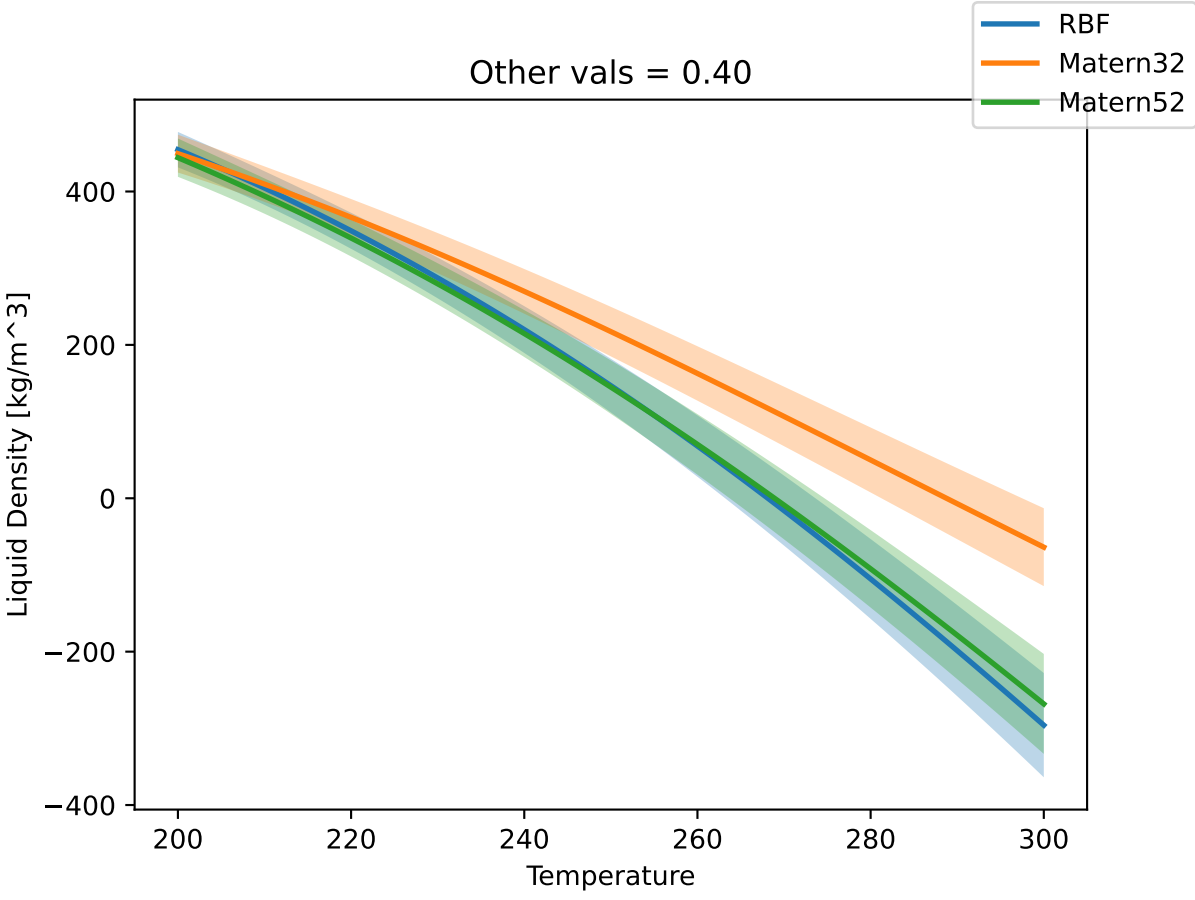

RBF
Matern32
Matern52
y=x
Model Prediction
Actual
400
500
600
700
400
500
600
700

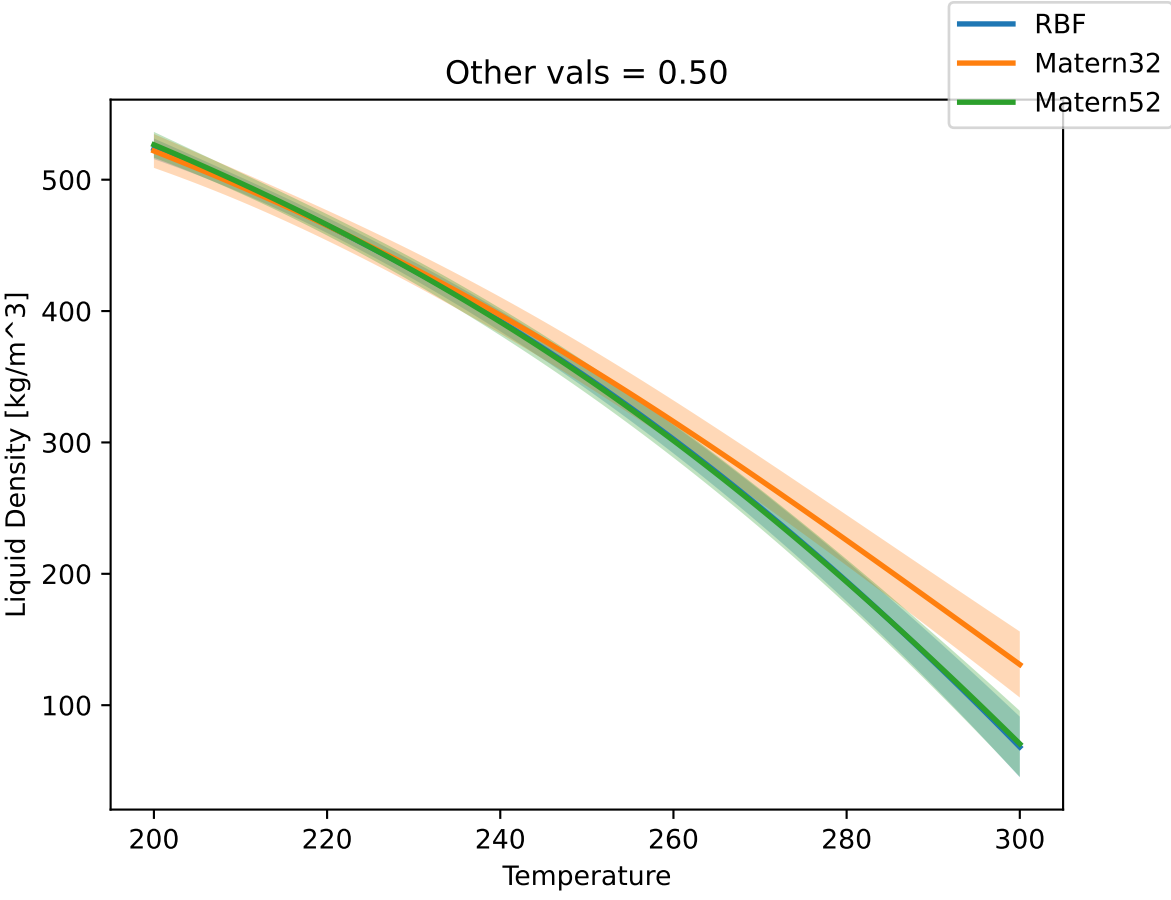

RBF
Matern32
Matern52
Other vals = 0.00
Liquid Density [kg/m^3]
0
−500
−1000
−1500
−2000
−2500
200
220
240
260
280
300
Temperature

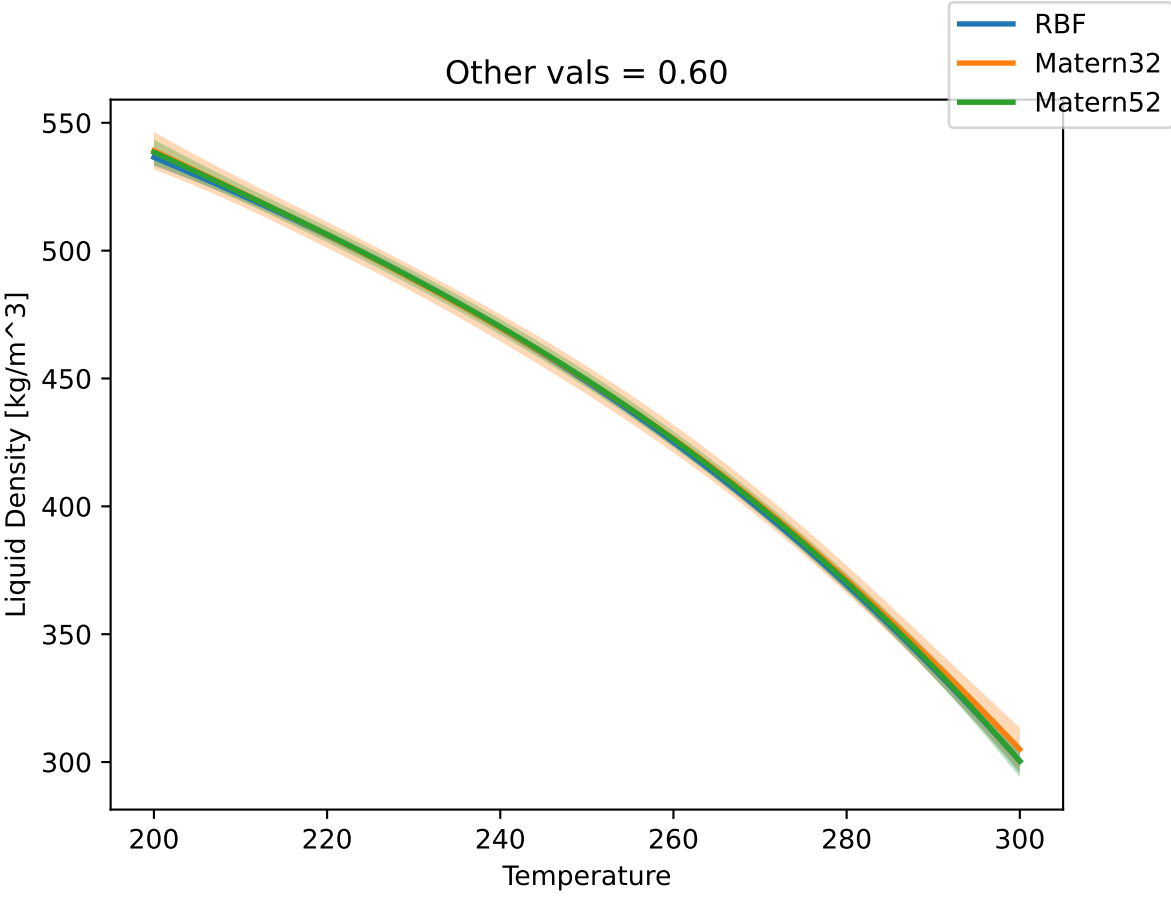

RBF
Matern32
Matern52
Other vals = 0.10
Liquid Density [kg/m^3]
0
−500
−1000
−1500
−2000
200
220
240
260
280
300
Temperature

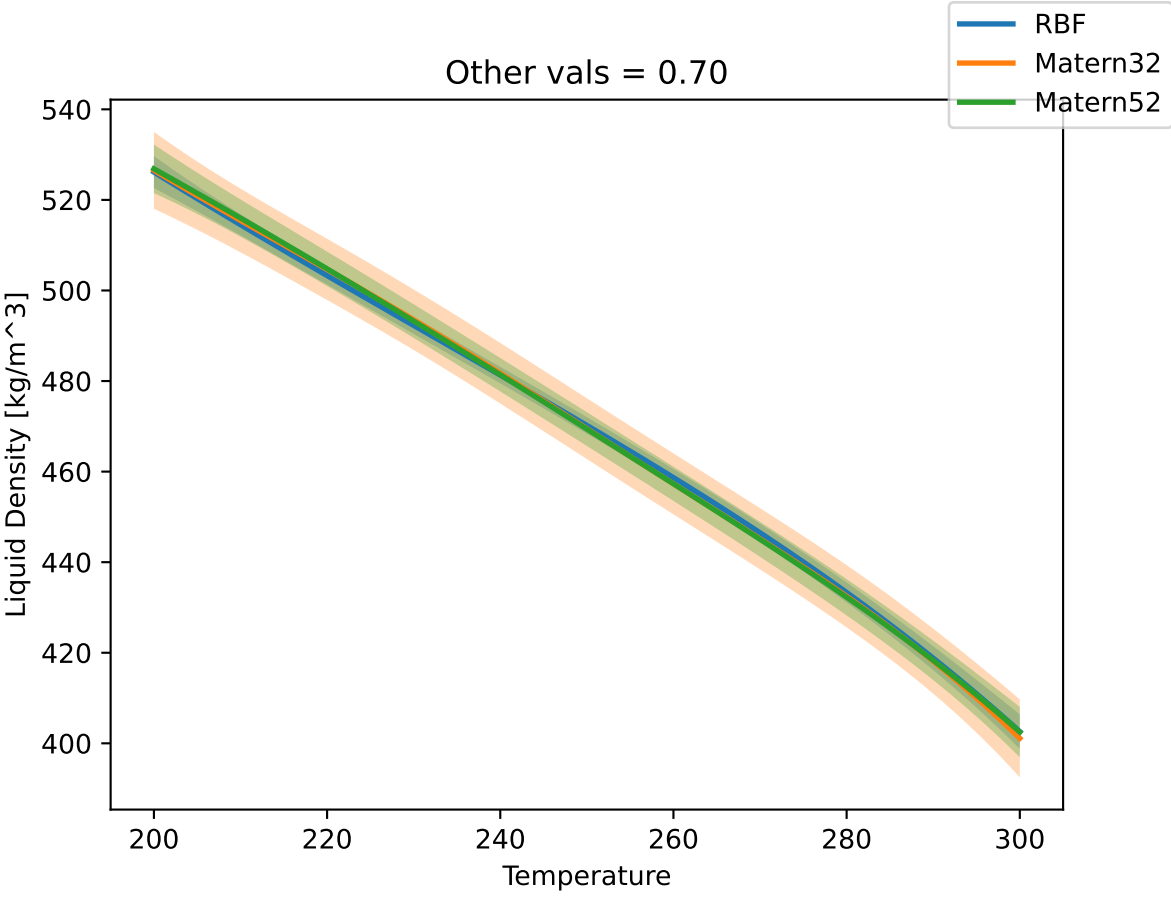

RBF
Matern32
Matern52
Other vals = 0.20
250
0
−250
−500
−750
−1000
−1250
−1500
Liquid Density [kg/m^3]
200
220
240
260
280
300
Temperature

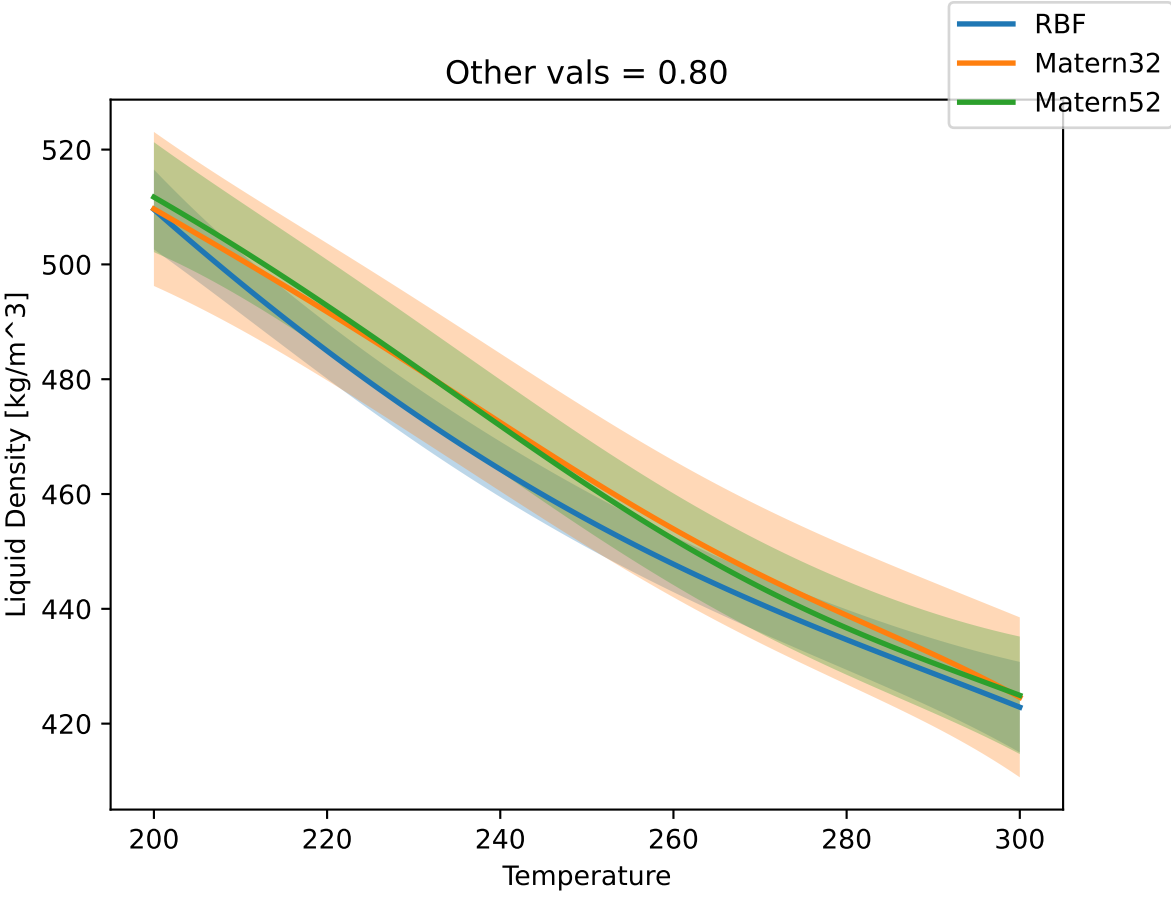

RBF
Matern32
Matern52
Other vals = 0.30
400
200
0
−200
−400
−600
−800
Liquid Density [kg/m^3]
200
220
240
260
280
300
Temperature

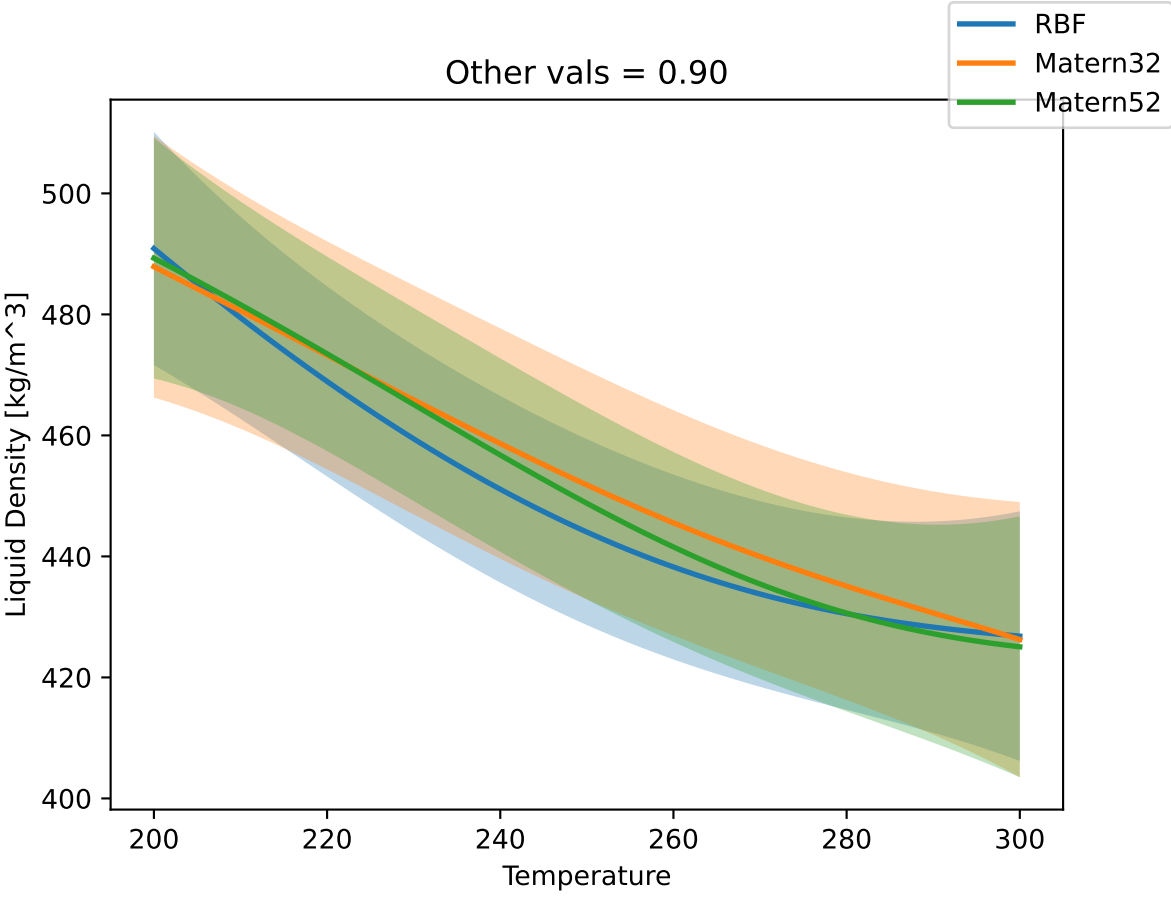

RBF
Matern32
Matern52
Other vals = 0.40
Liquid Density [kg/m^3]
400
200
0
−200
−400
200
220
240
260
280
300
Temperature

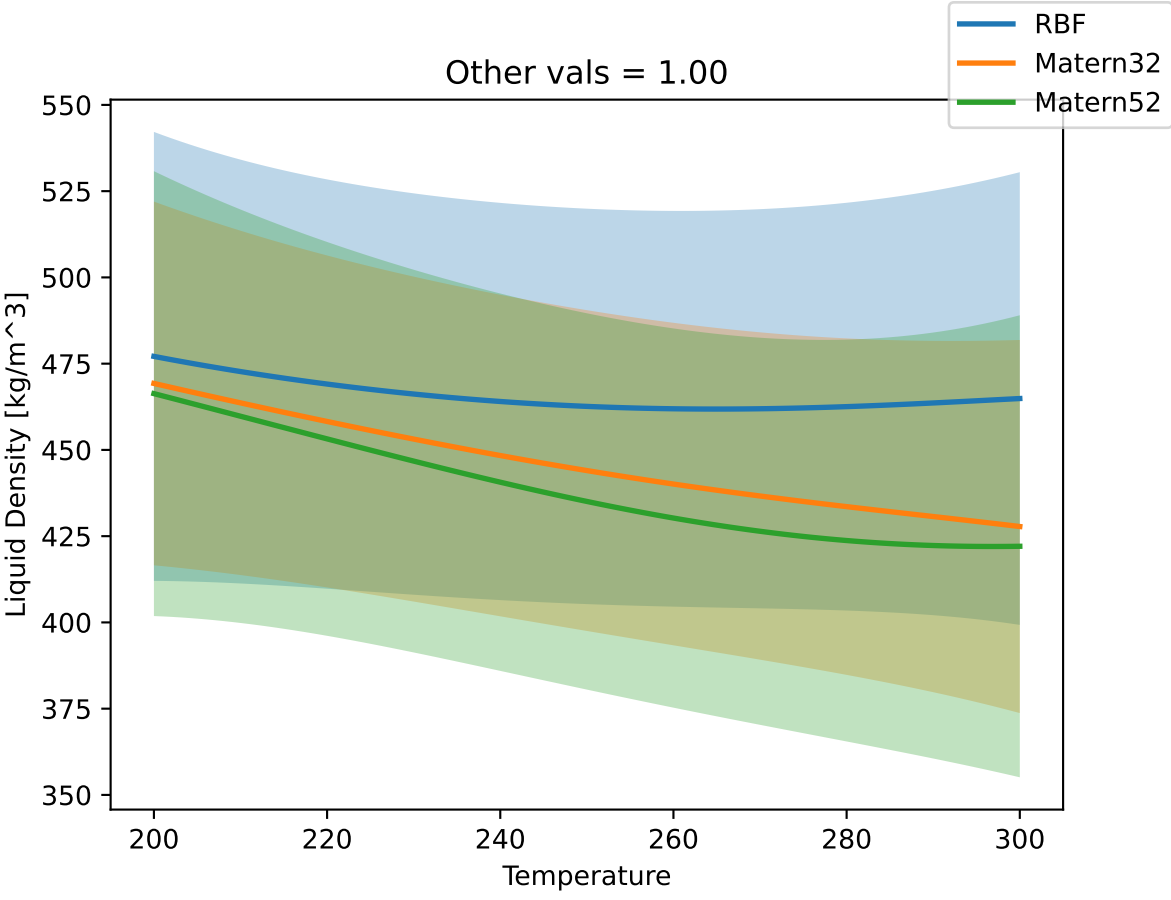

RBF
Matern32
Matern52
Other vals = 0.50
Liquid Density [kg/m^3]
500
400
300
200
100
200
220
240
260
280
300
Temperature

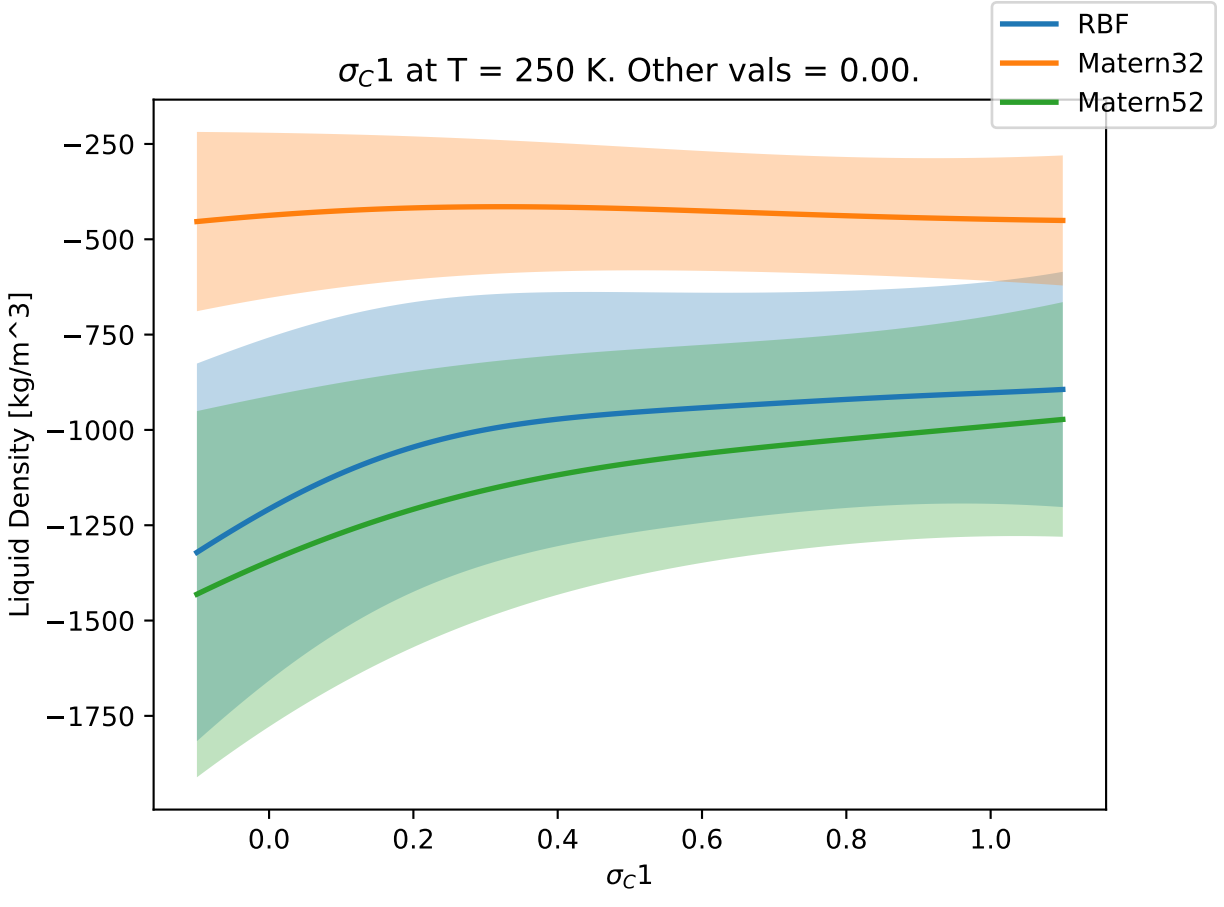

RBF
Matern32
Matern52
Other vals = 0.60
Liquid Density [kg/m^3]
550
500
450
400
350
300
200
220
240
260
280
300
Temperature

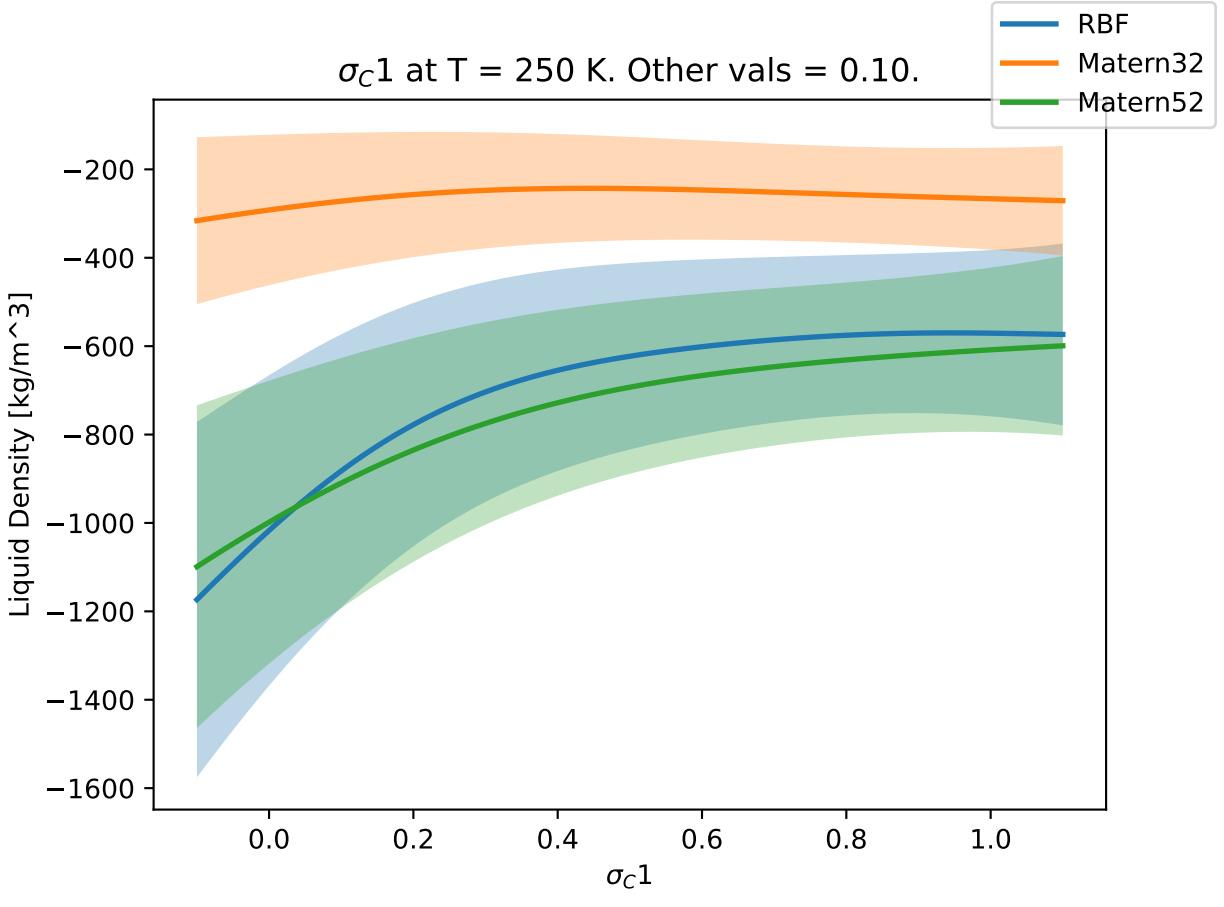

RBF
Matern32
Matern52
Other vals = 0.70
Liquid Density [kg/m^3]
540
520
500
480
460
440
420
400
200
220
240
260
280
300
Temperature

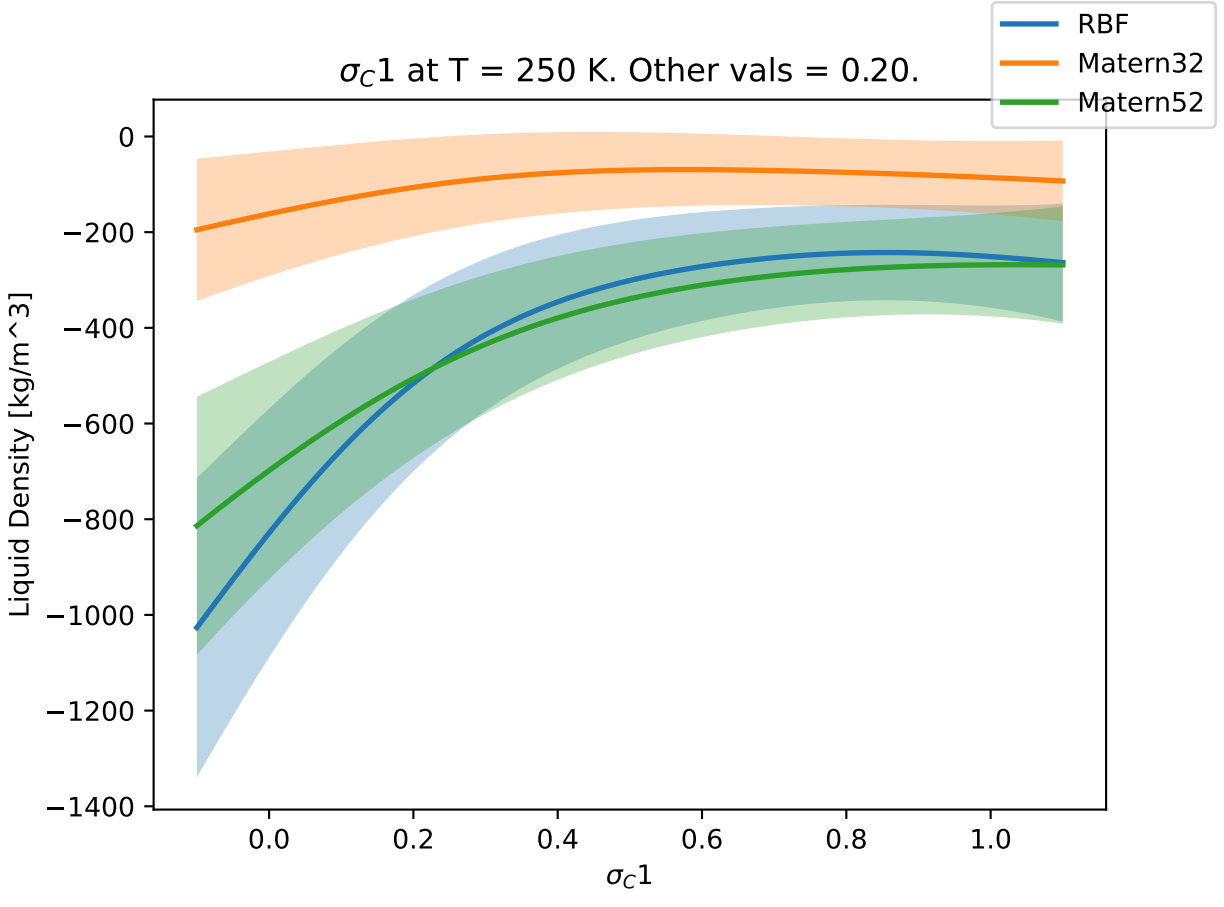

RBF
Matern32
Matern52
Other vals = 0.80
Liquid Density [kg/m^3]
520
500
480
460
440
420
200
220
240
260
280
300
Temperature

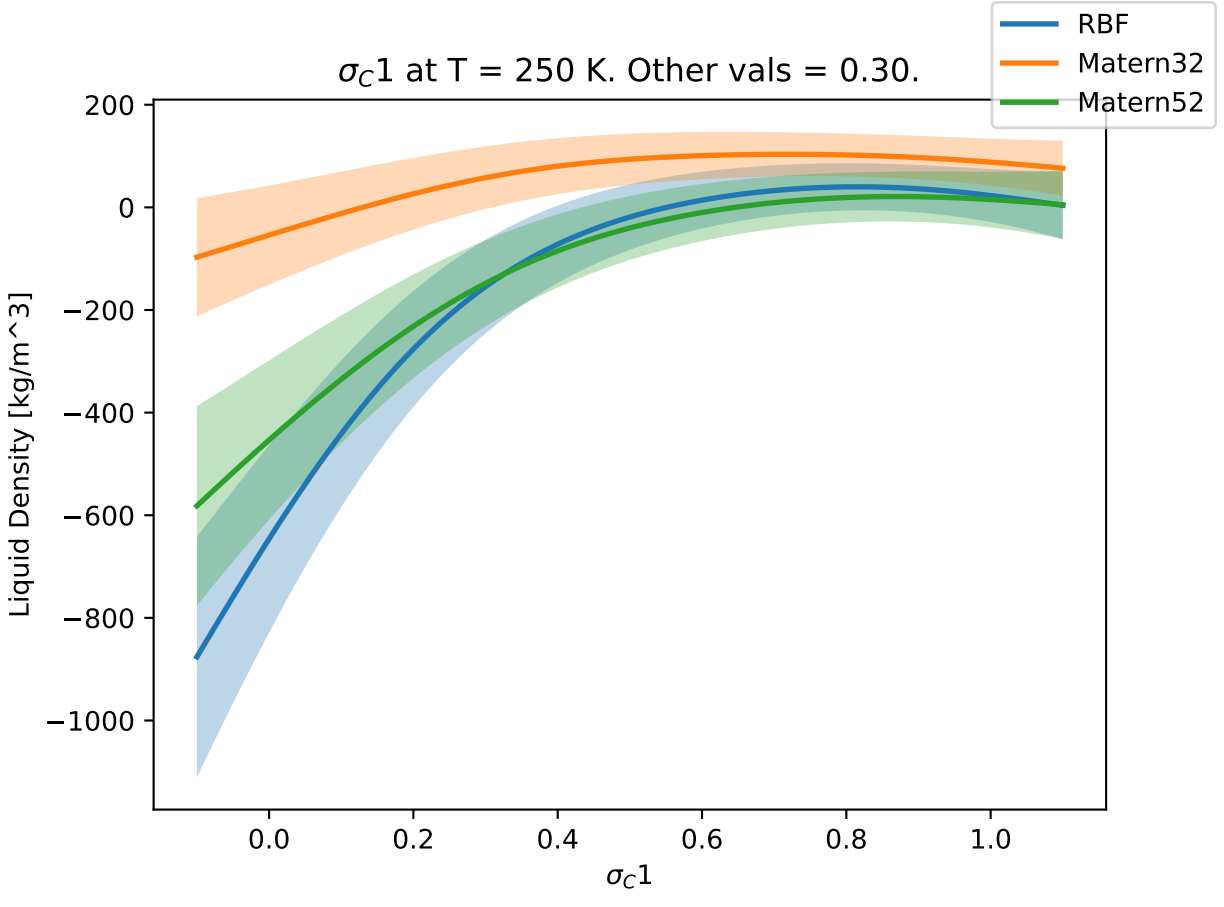

RBF
Matern32
Matern52
Other vals = 0.90
Liquid Density [kg/m^3]
500
480
460
440
420
400
200
220
240
260
280
300
Temperature

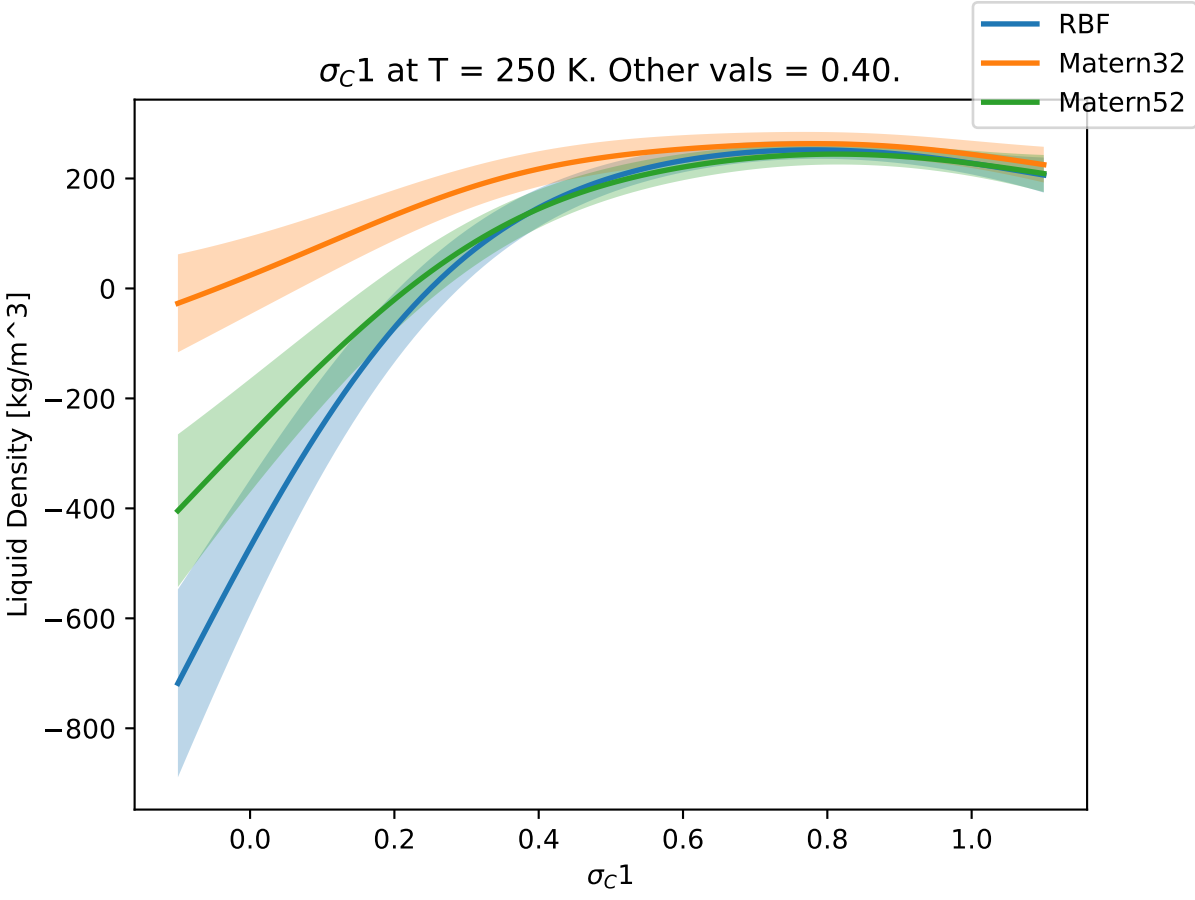

RBF
Matern32
Matern52
Other vals = 1.00
Liquid Density [kg/m^3]
550
525
500
475
450
425
400
375
350
200
220
240
260
280
300
Temperature

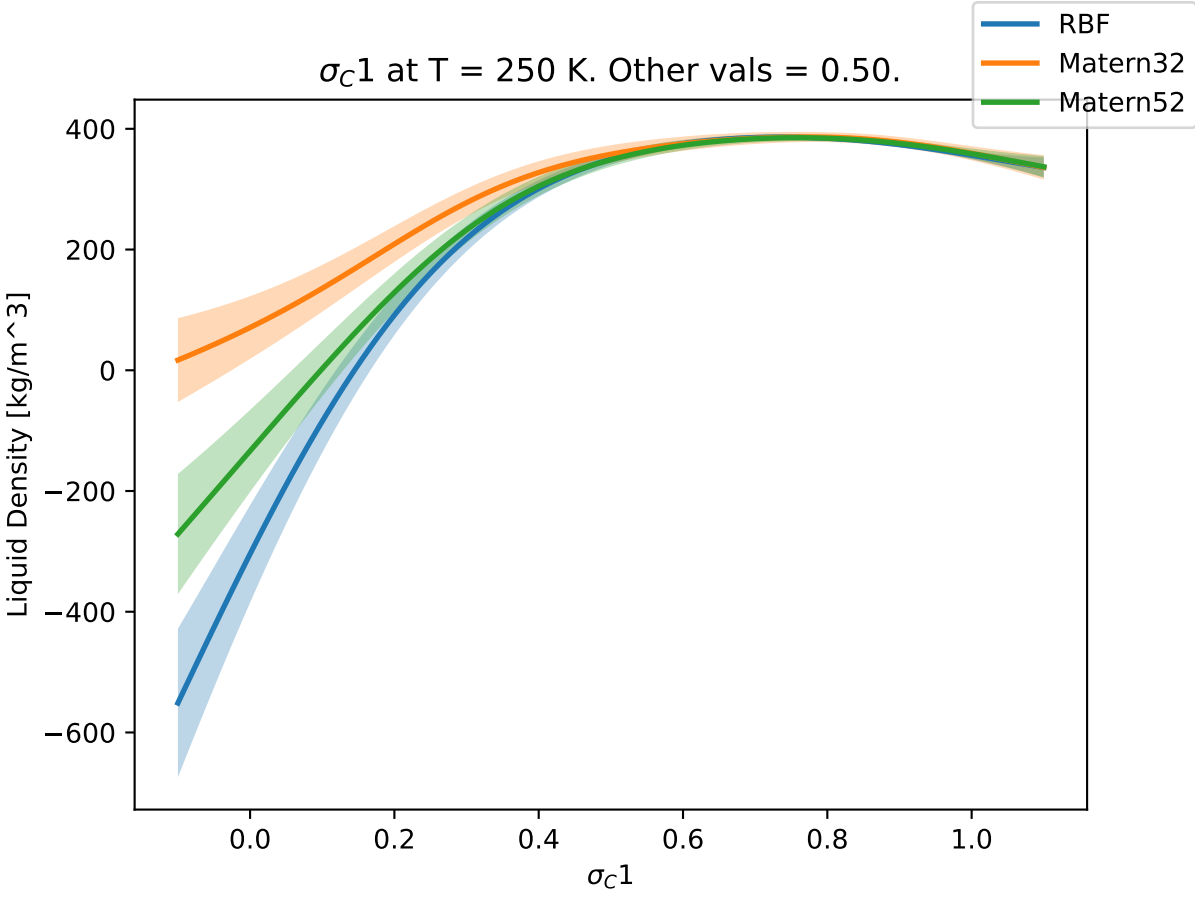

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.00.
−250
−500
−750
−1000
−1250
−1500
−1750
Liquid Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

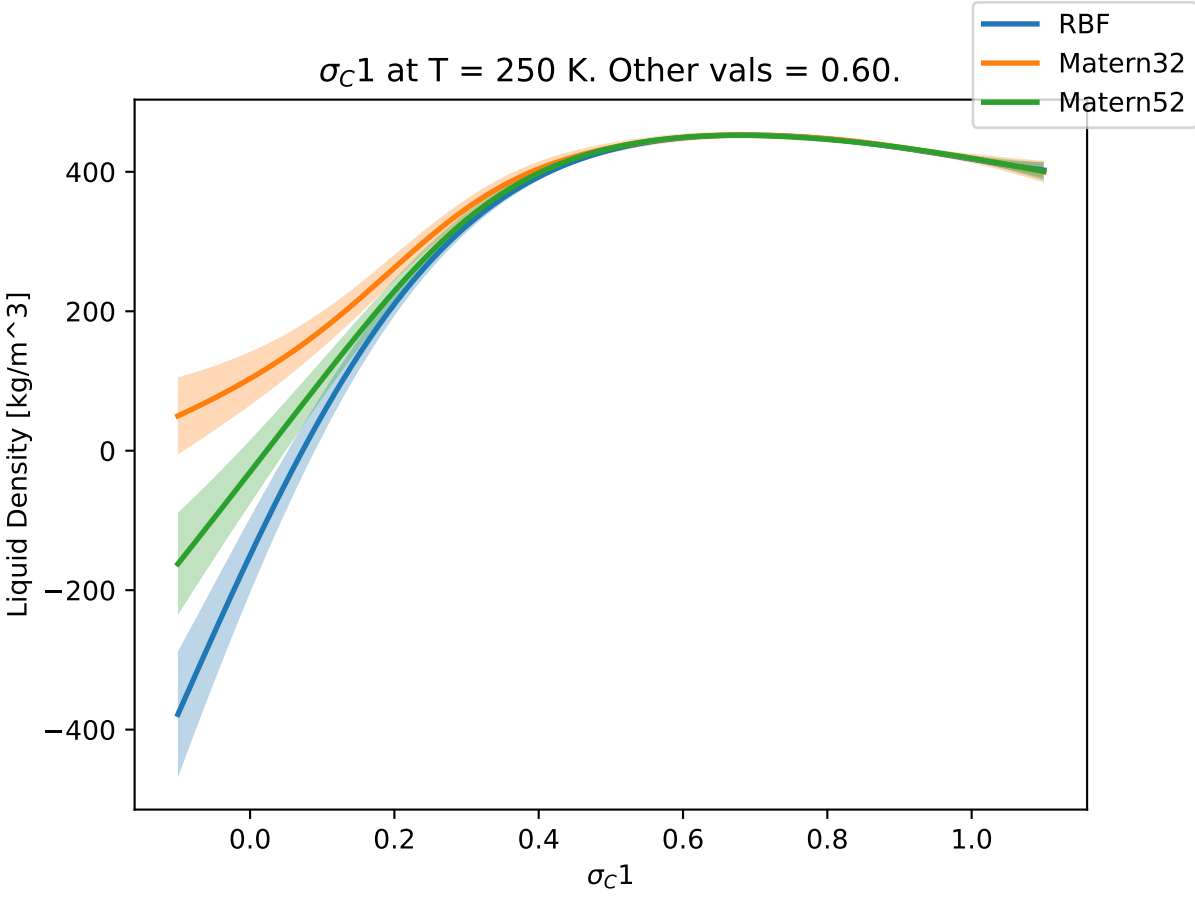

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.10.
Liquid Density [kg/m^3]
−200
−400
−600
−800
−1000
−1200
−1400
−1600
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

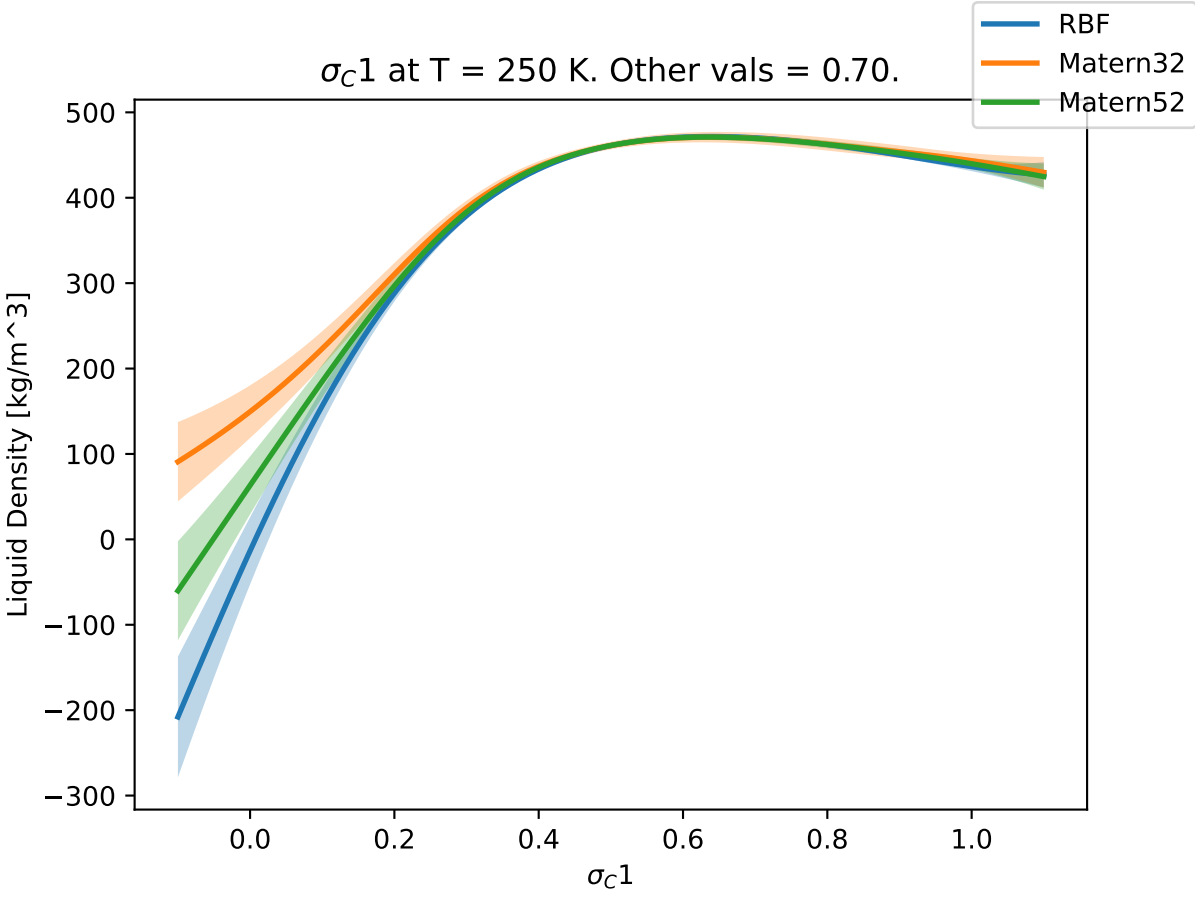

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.20.
Liquid Density [kg/m^3]
0
−200
−400
−600
−800
−1000
−1200
−1400
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

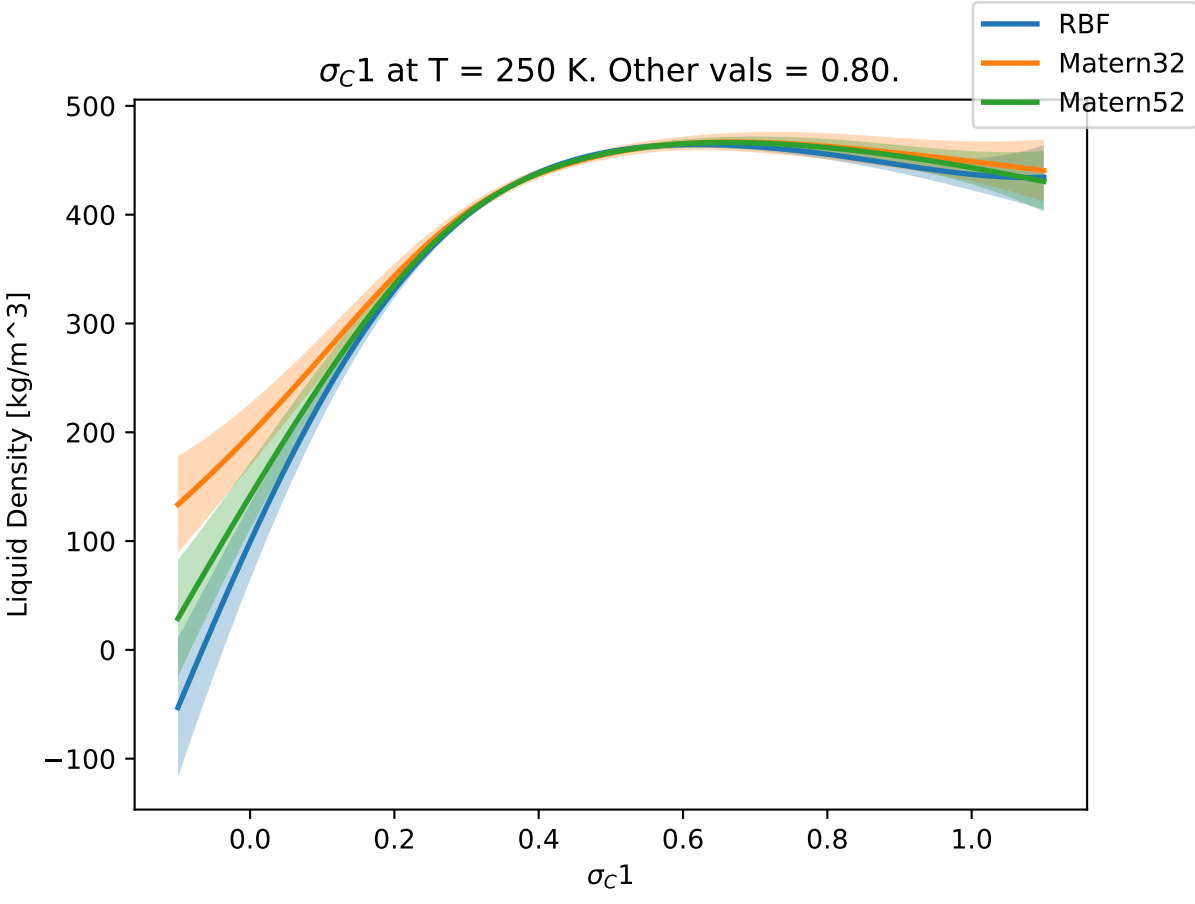

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.30.
200
0
−200
−400
−600
−800
−1000
Liquid Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

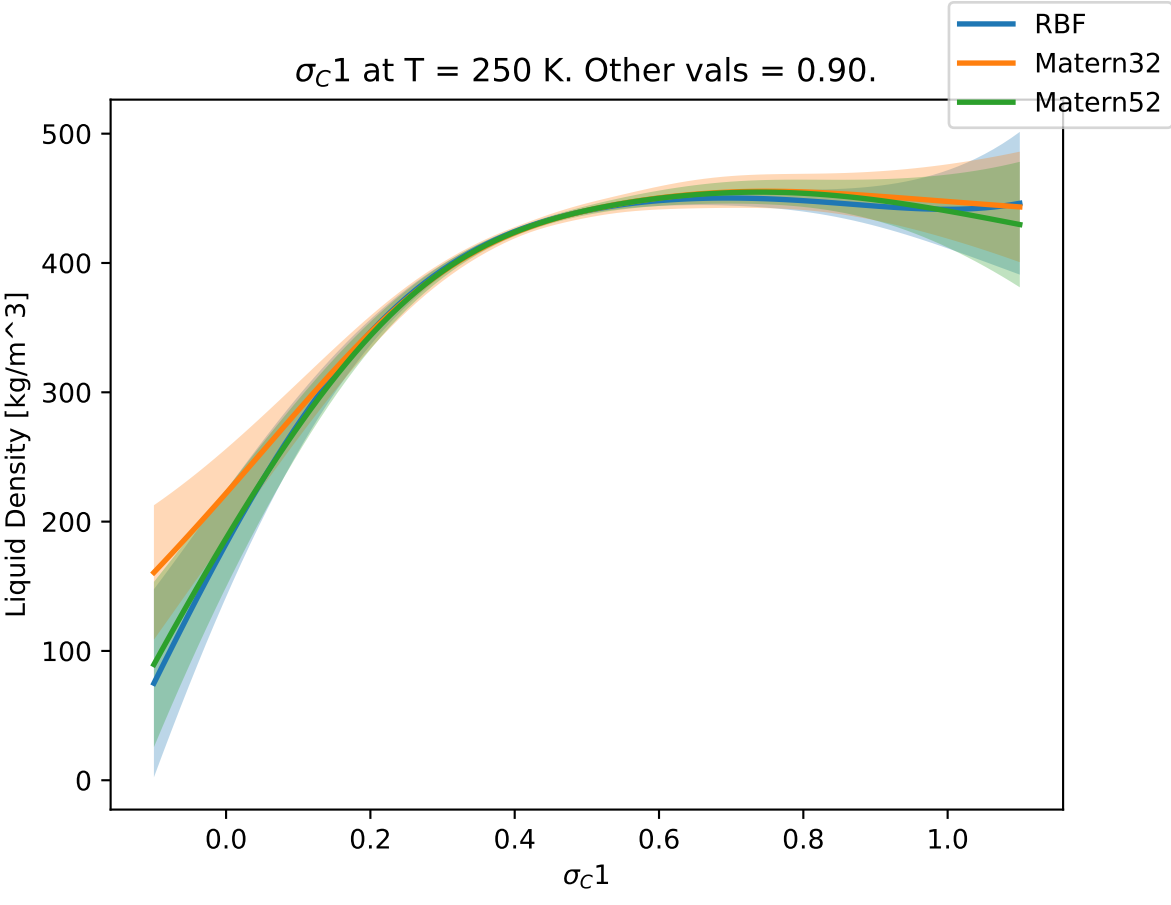

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.40.
Liquid Density [kg/m^3]
200
0
−200
−400
−600
−800
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

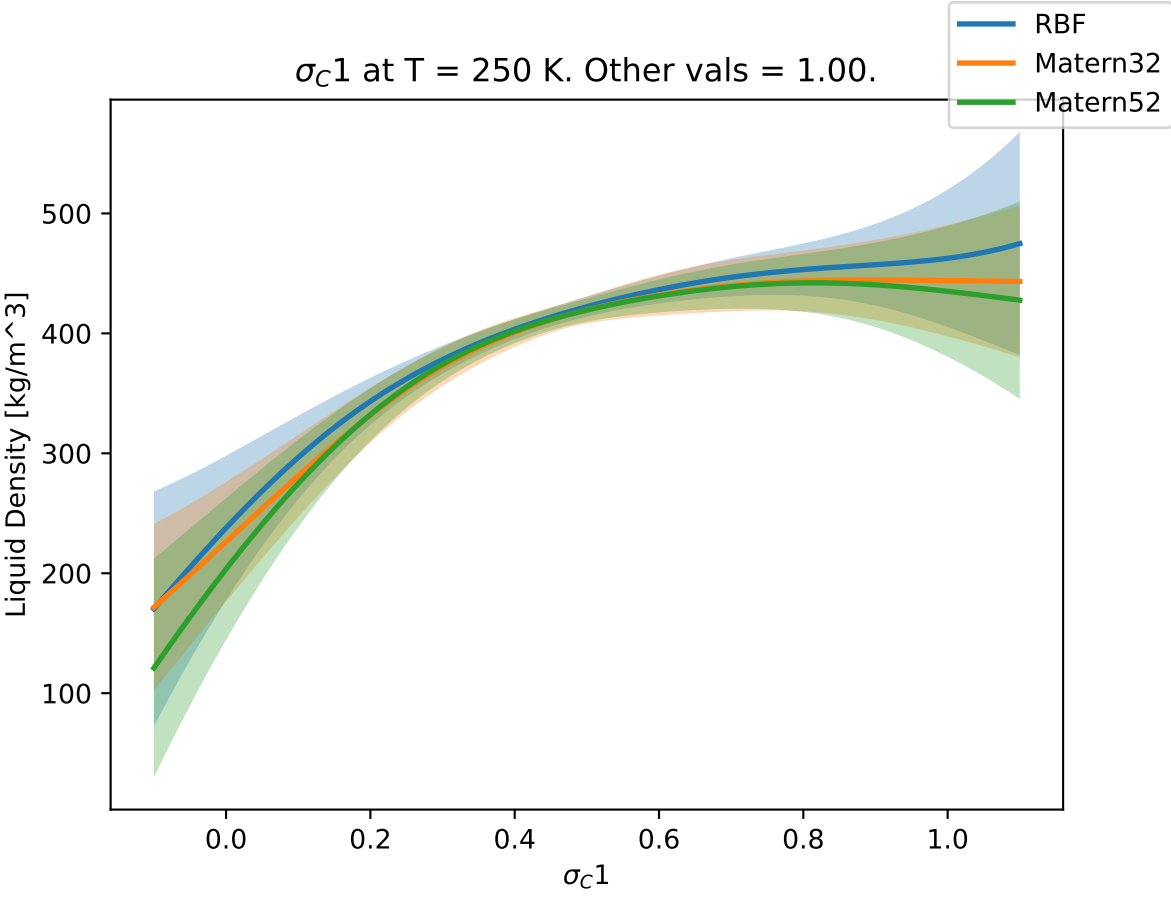

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.50.
Liquid Density [kg/m^3]
400
200
0
−200
−400
−600
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

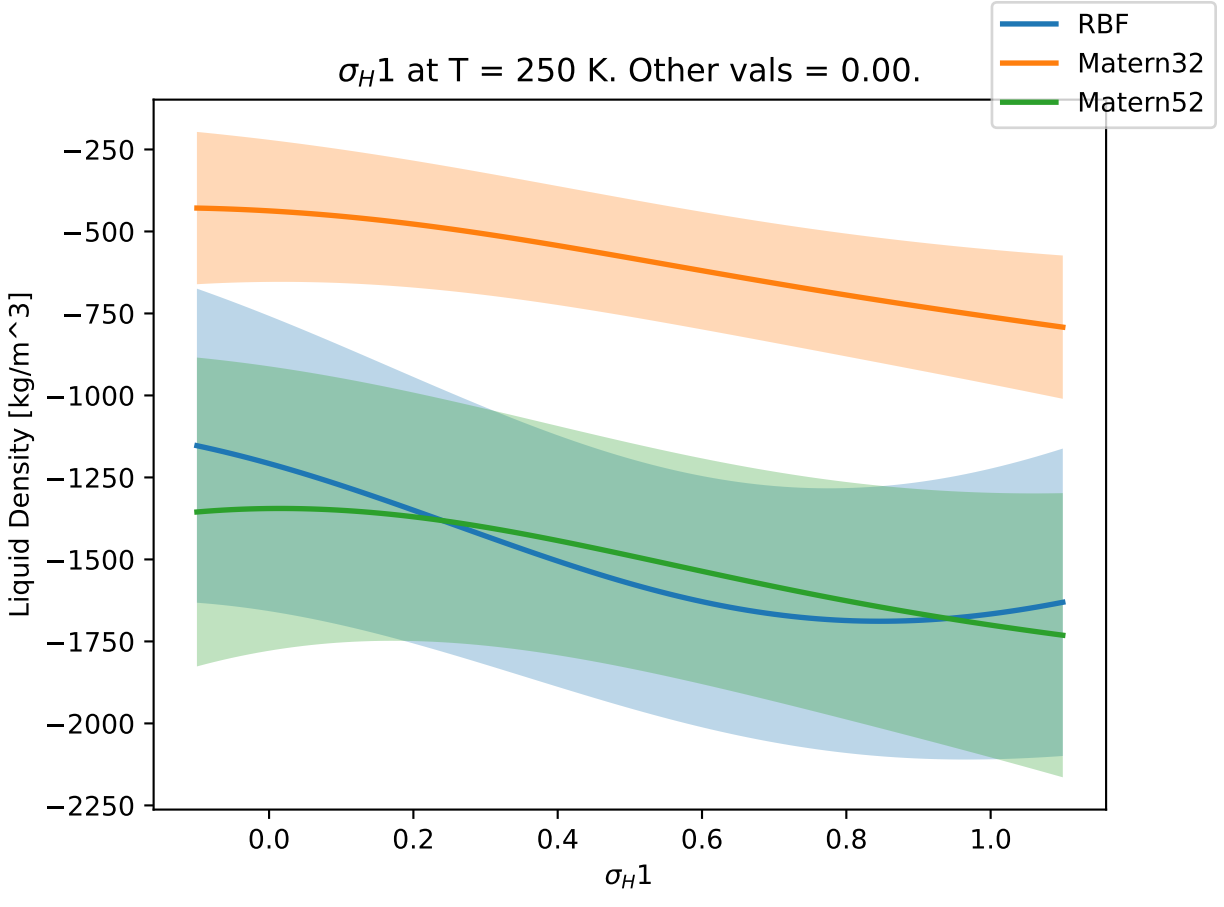

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.60.
Liquid Density [kg/m^3]
400
200
0
−200
−400
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

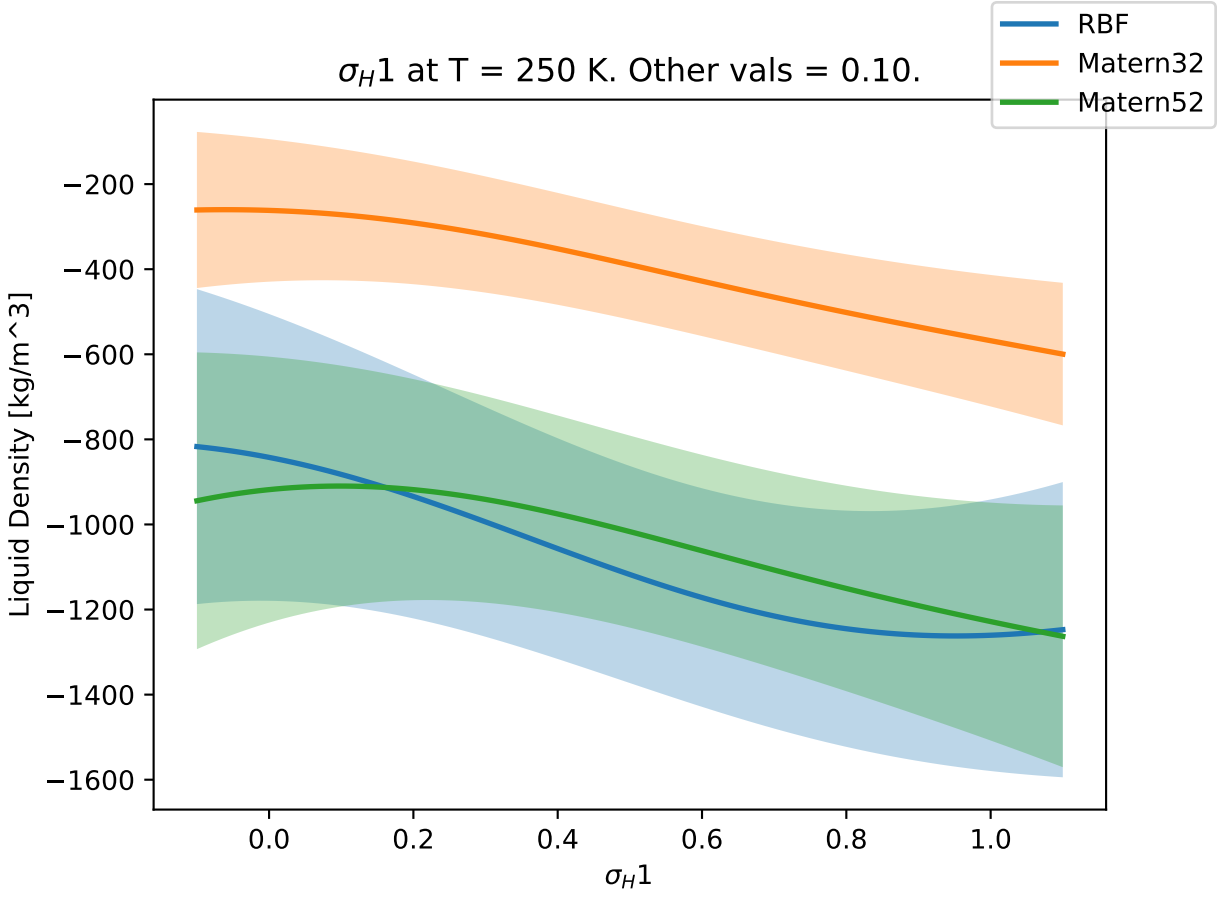

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.70.
Liquid Density [kg/m^3]
500
400
300
200
100
0
−100
−200
−300
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

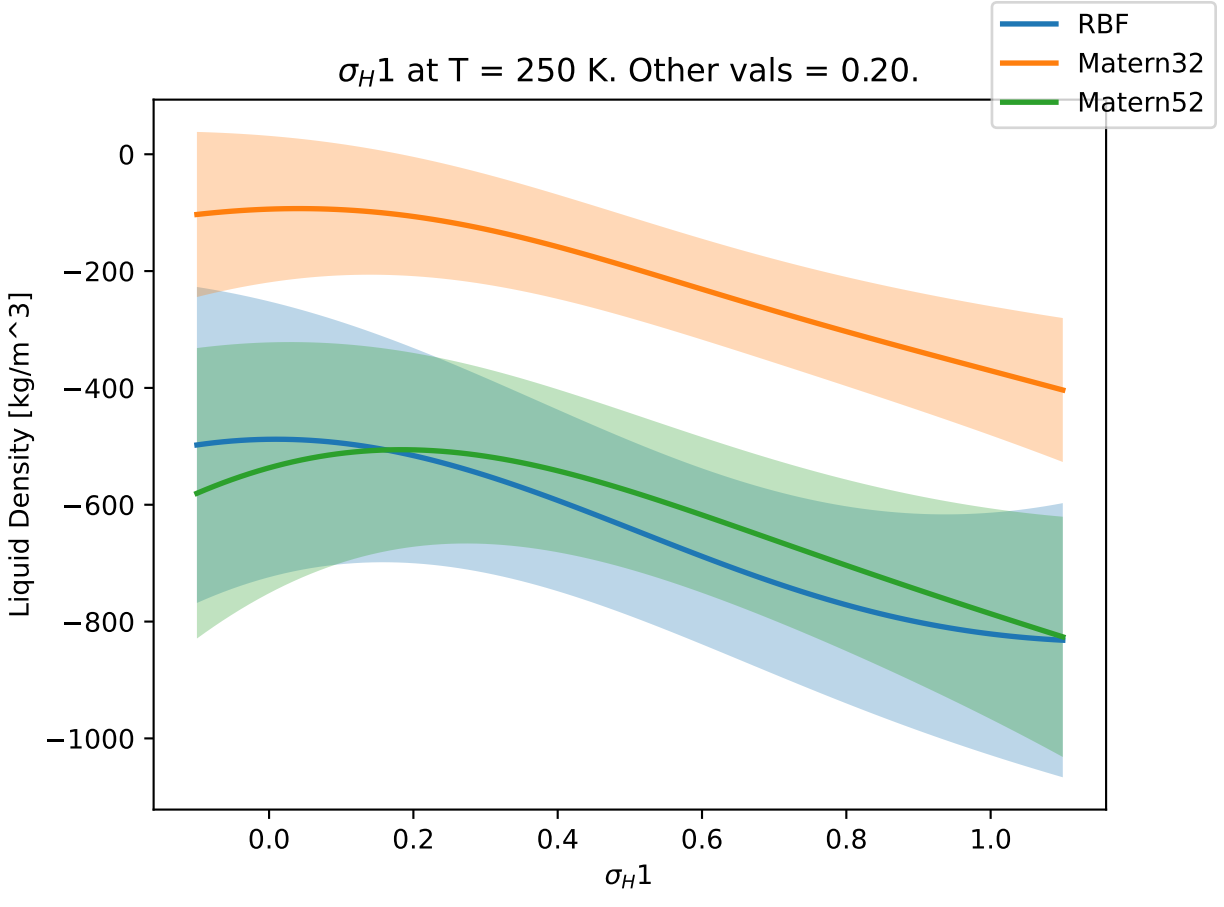

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.80.
Liquid Density [kg/m^3]
500
400
300
200
100
0
−100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

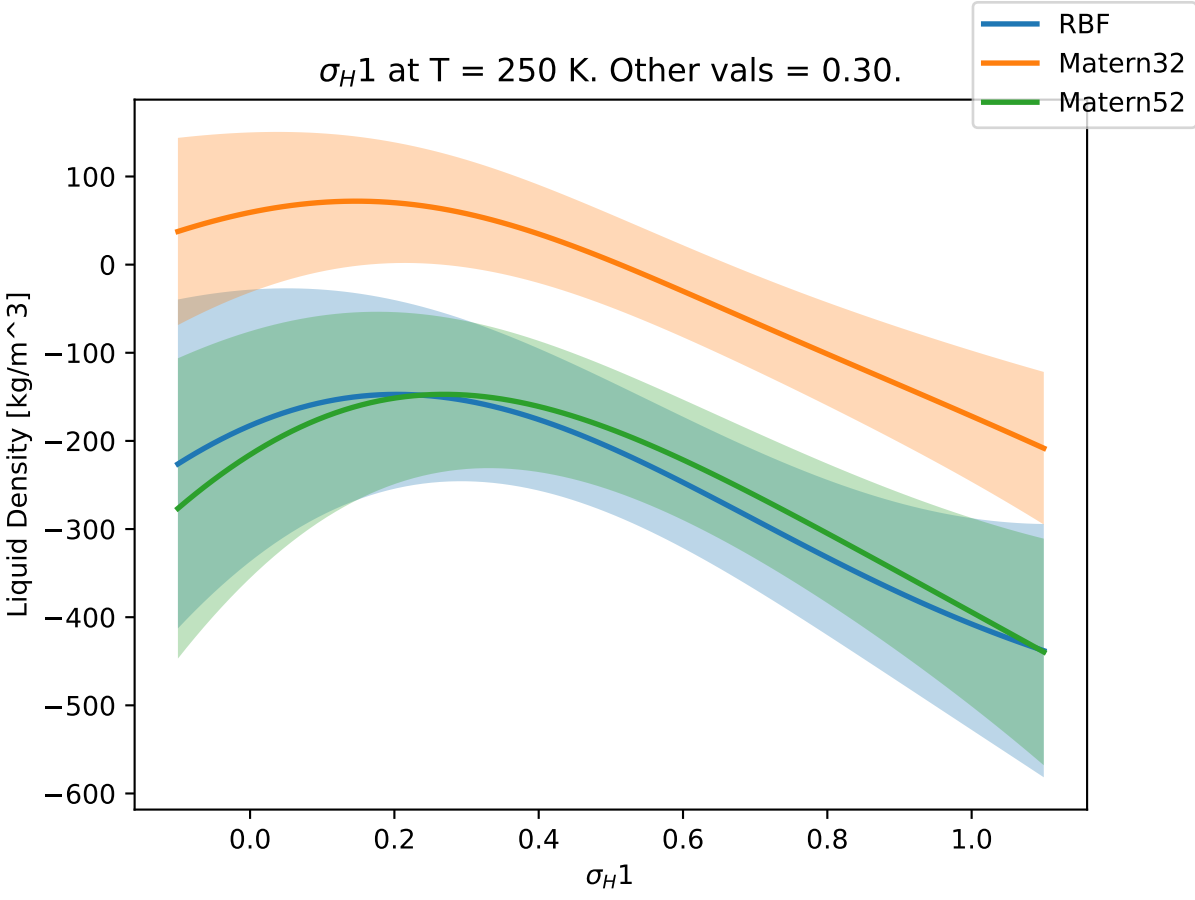

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.90.
Liquid Density [kg/m^3]
500
400
300
200
100
0
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

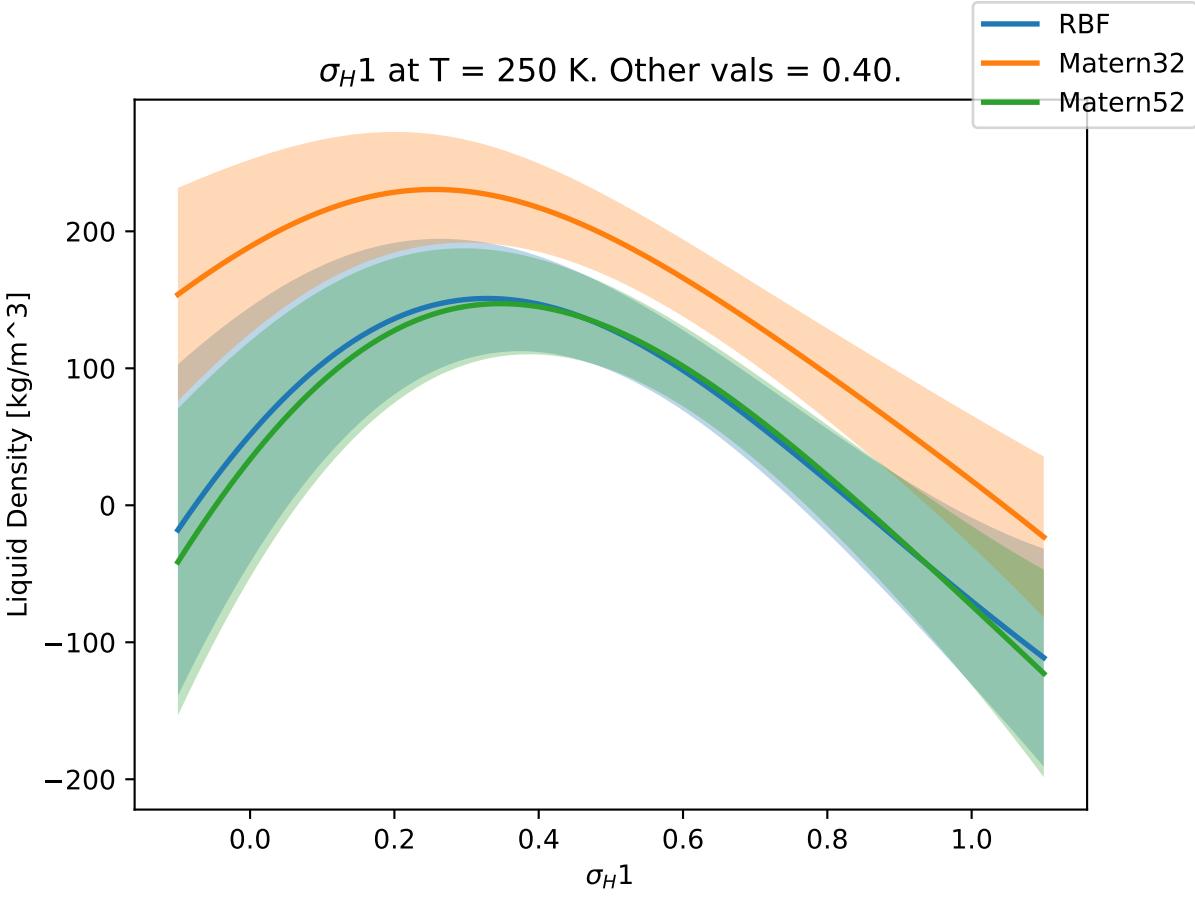

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 1.00.
Liquid Density [kg/m^3]
500
400
300
200
100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

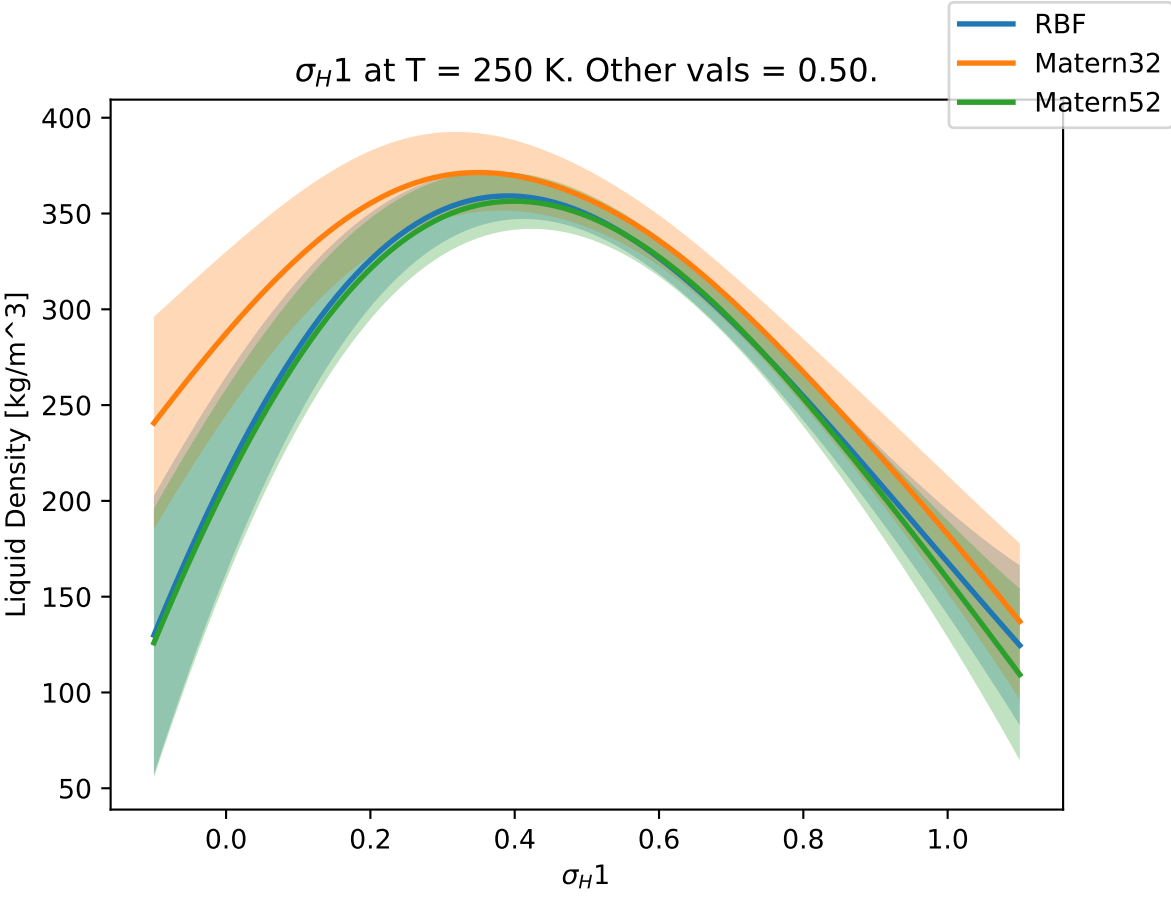

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 250 K. Other vals = 0.00.
Liquid Density [kg/m^3]
−250
−500
−750
−1000
−1250
−1500
−1750
−2000
−2250
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

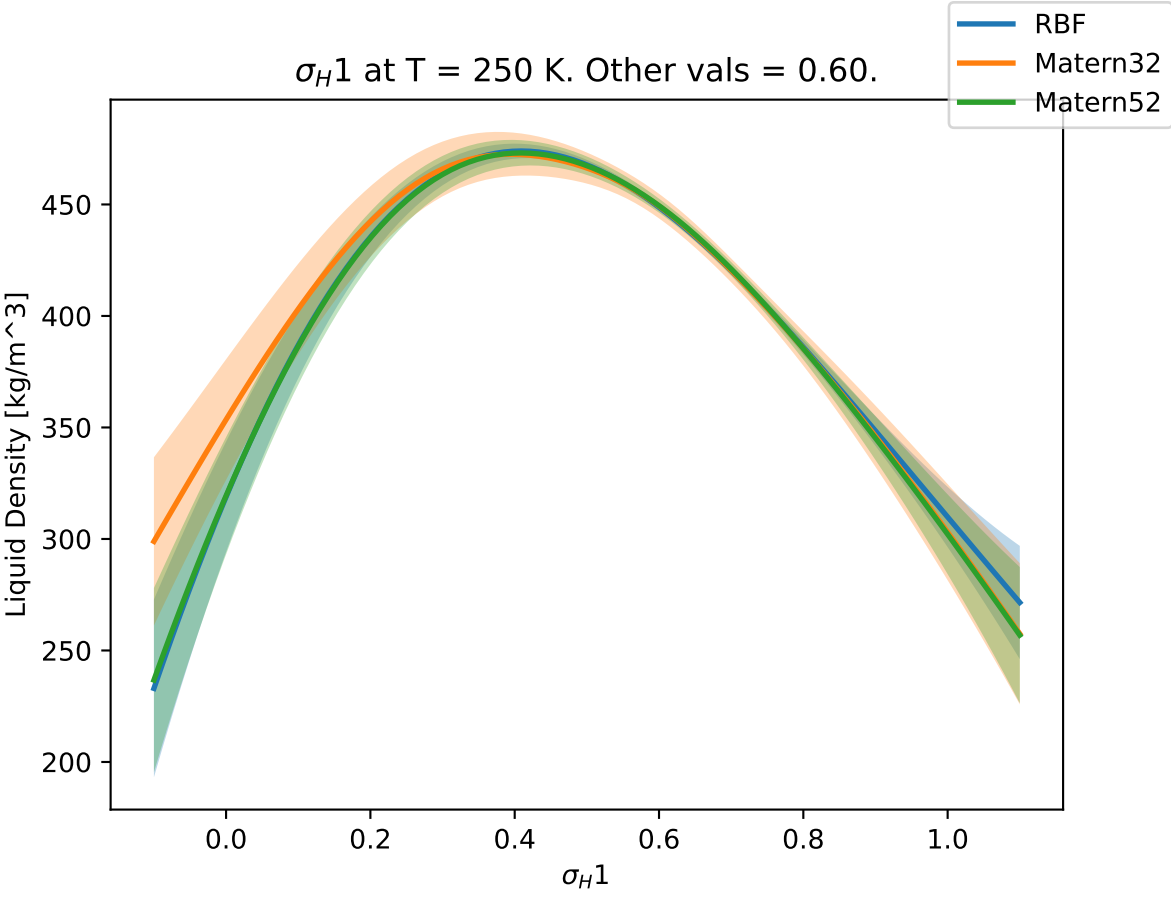

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 250 K. Other vals = 0.10.
Liquid Density [kg/m^3]
−200
−400
−600
−800
−1000
−1200
−1400
−1600
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

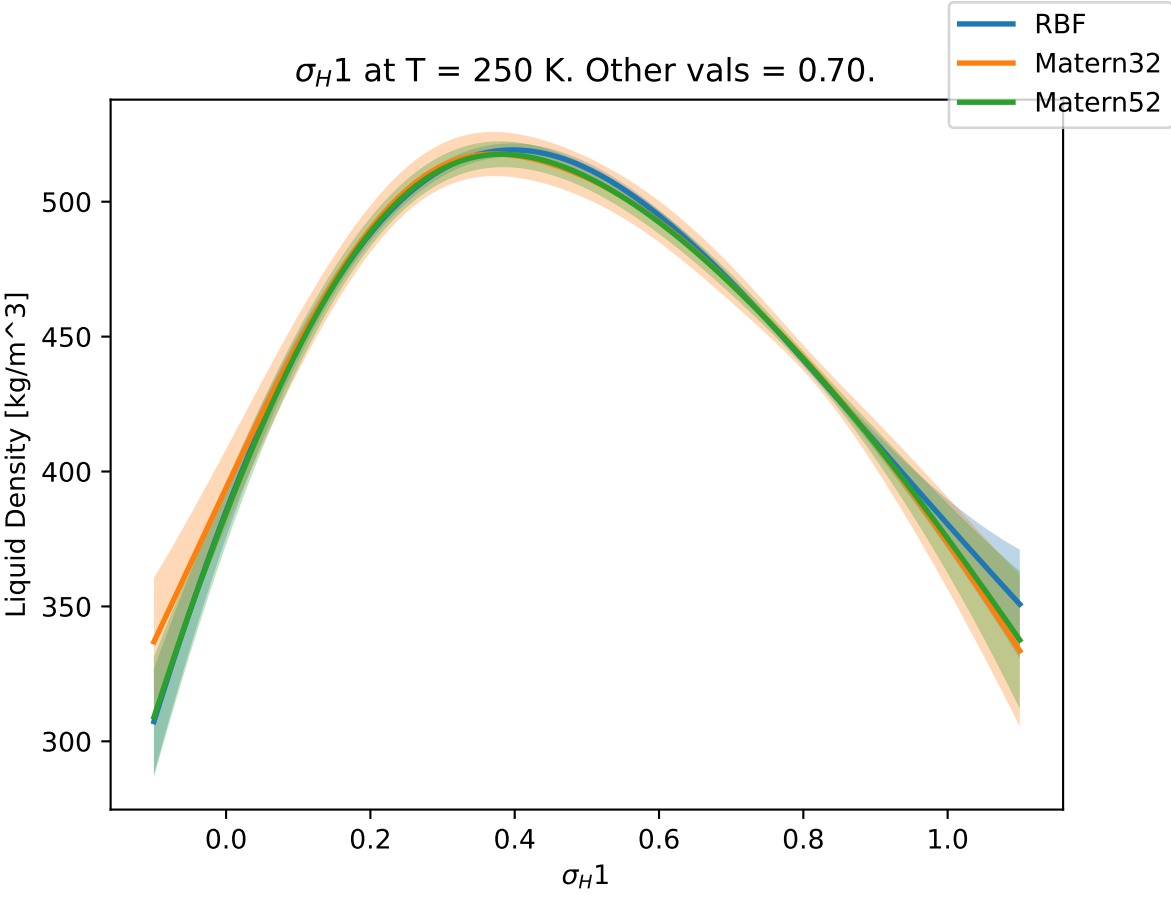

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 250 K. Other vals = 0.20.
Liquid Density [kg/m^3]
0
−200
−400
−600
−800
−1000
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

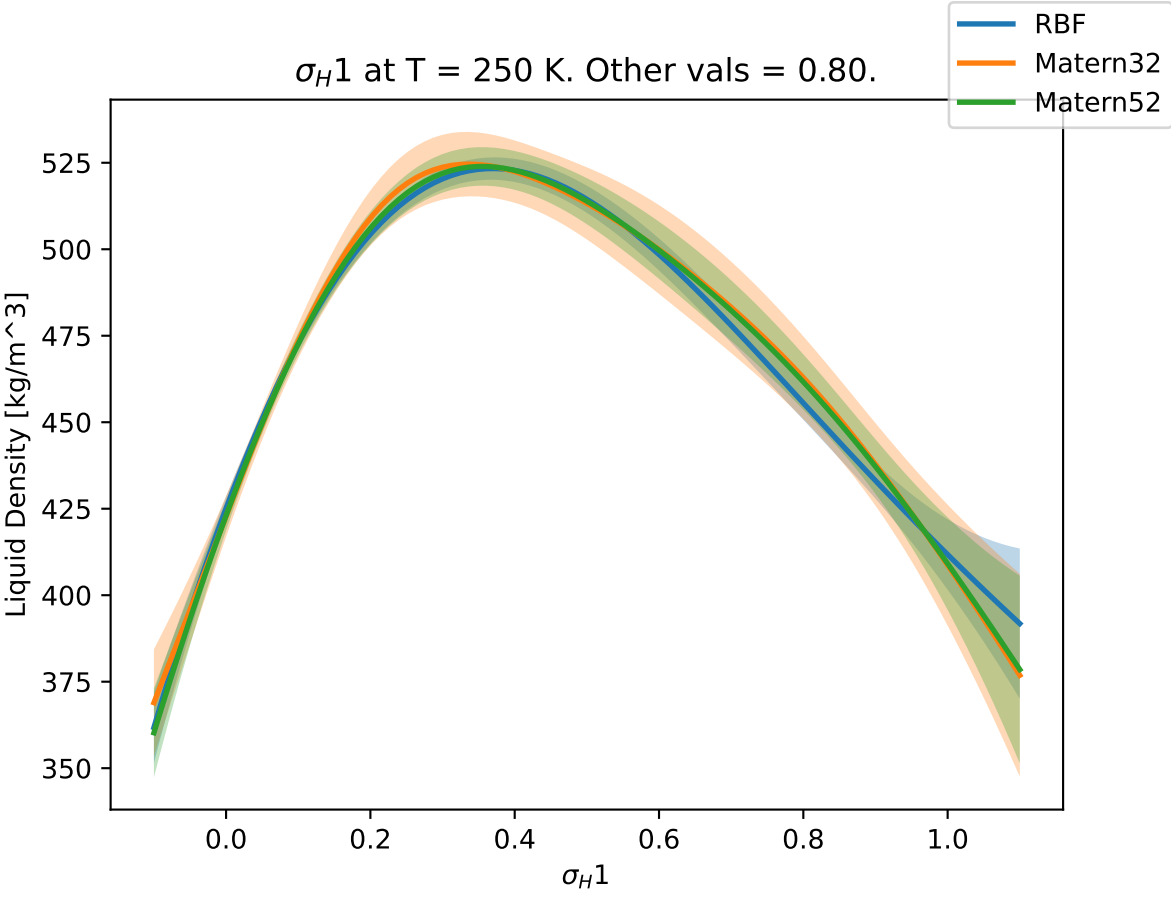

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 250 K. Other vals = 0.30.
Liquid Density [kg/m^3]
100
0
−100
−200
−300
−400
−500
−600
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

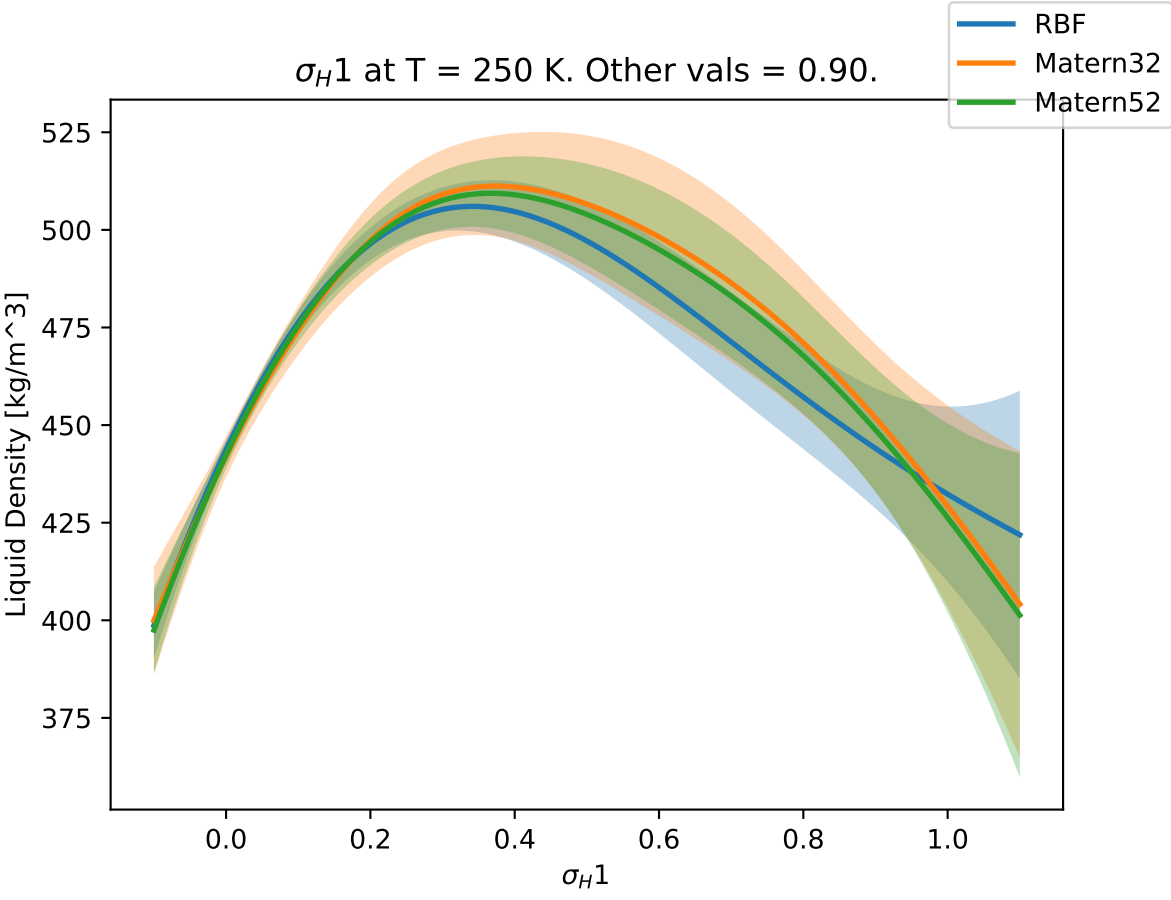

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 250 K. Other vals = 0.40.
Liquid Density [kg/m^3]
200
100
0
−100
−200
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

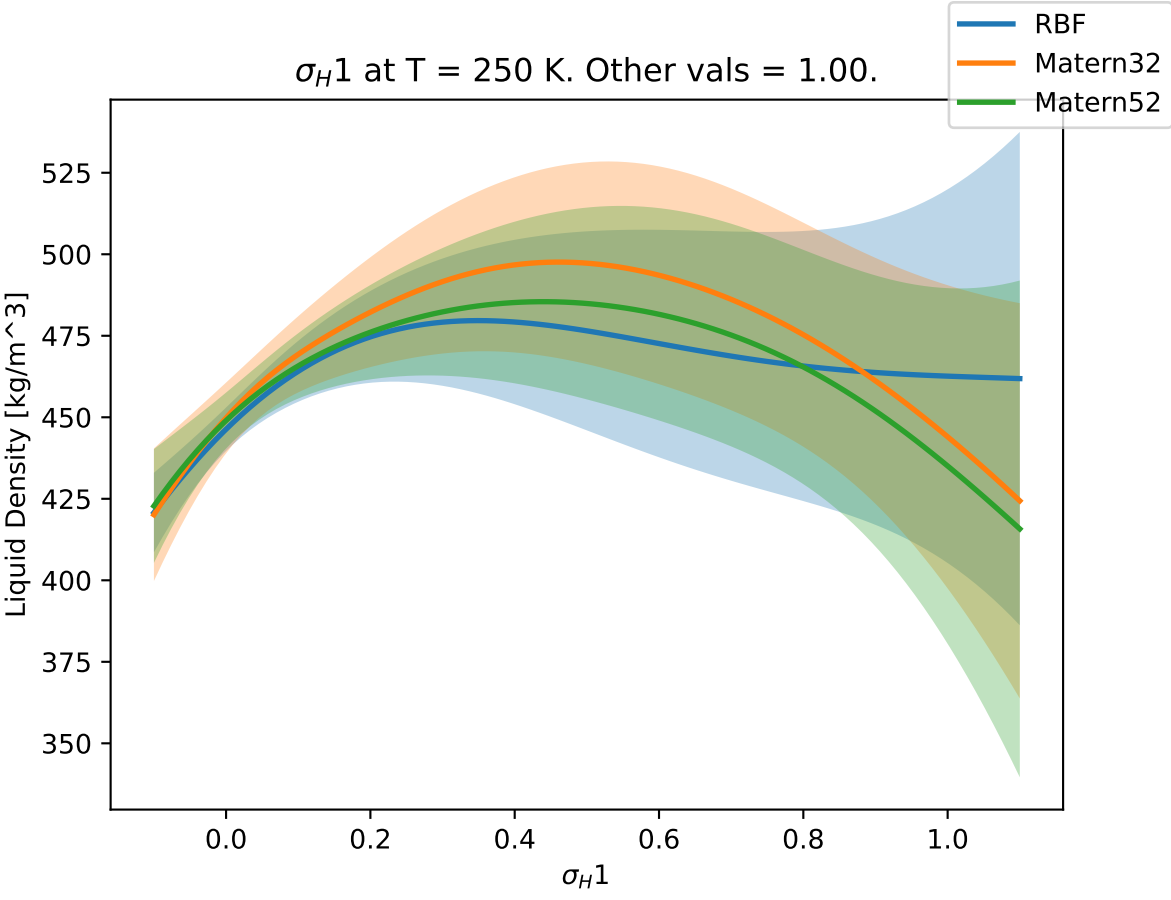

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 250 K. Other vals = 0.50.
Liquid Density [kg/m^3]
400
350
300
250
200
150
100
50
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

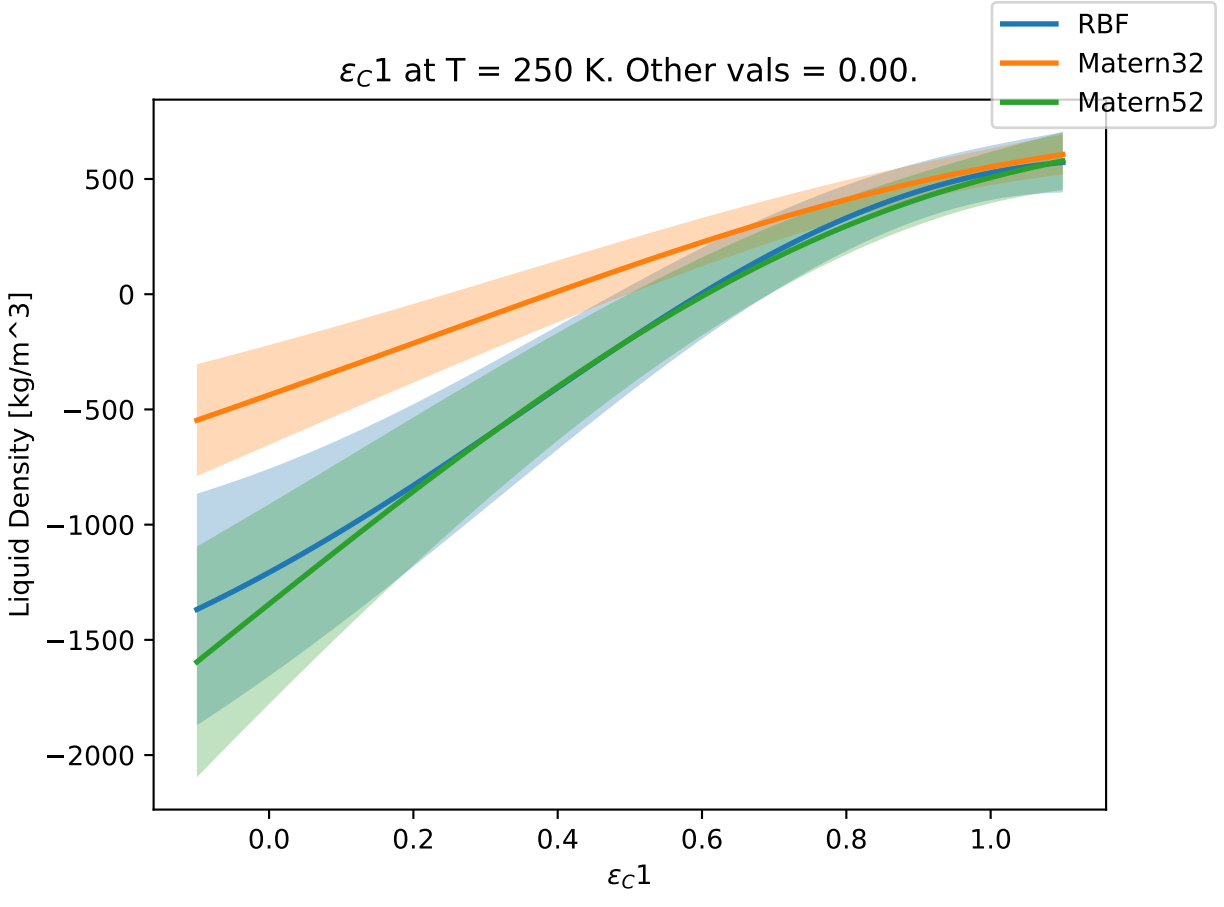

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 250 K. Other vals = 0.60.
Liquid Density [kg/m^3]
450
400
350
300
250
200
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

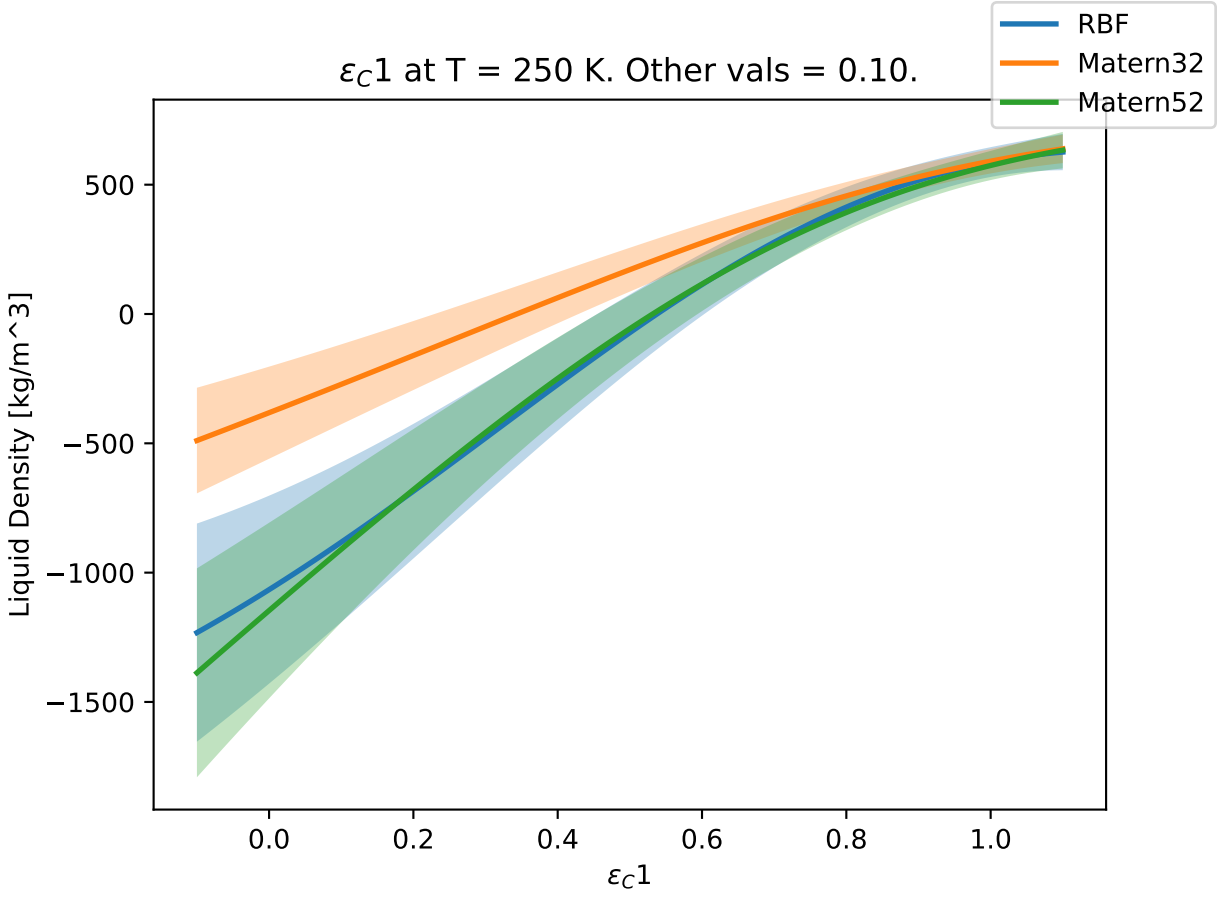

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 250 K. Other vals = 0.70.
Liquid Density [kg/m^3]
500
450
400
350
300
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

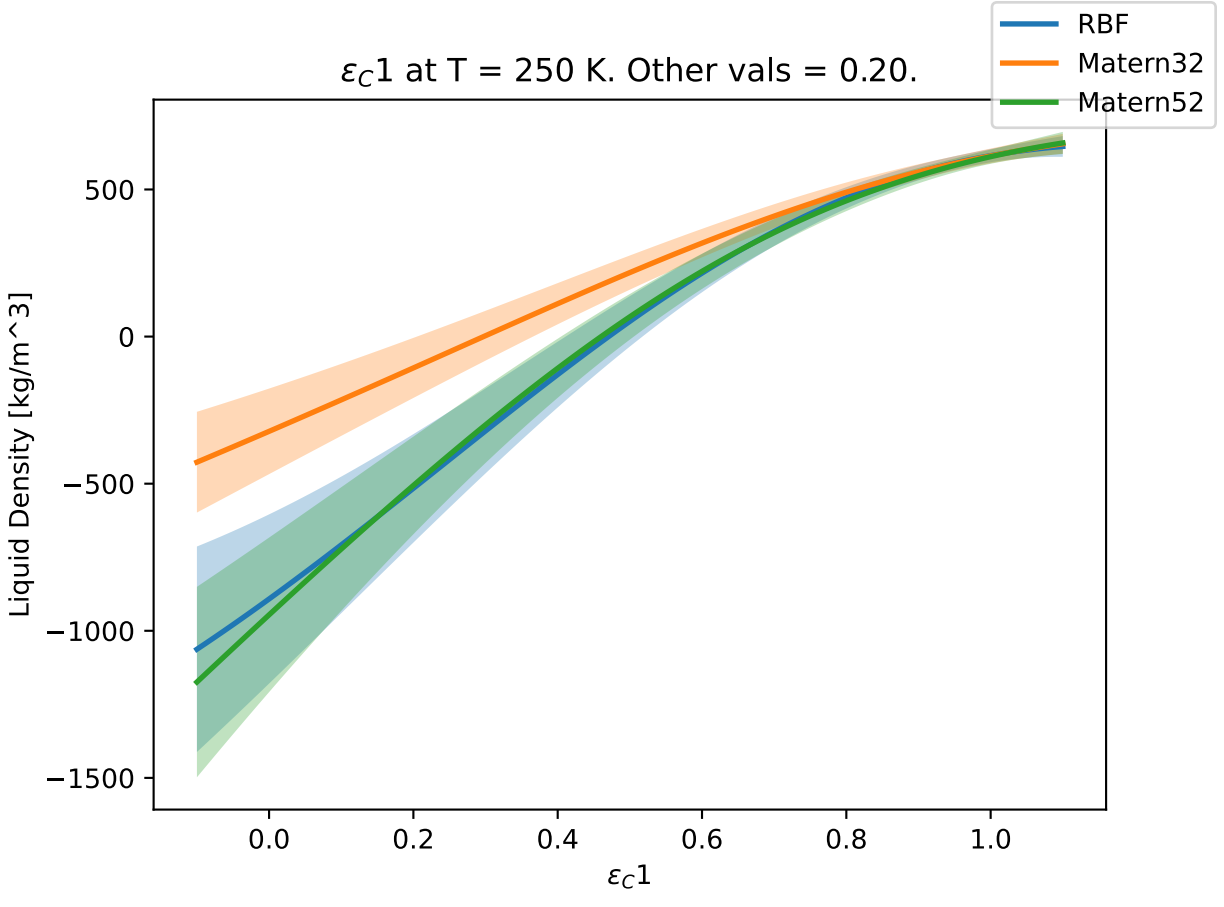

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 250 K. Other vals = 0.80.
Liquid Density [kg/m^3]
525
500
475
450
425
400
375
350
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

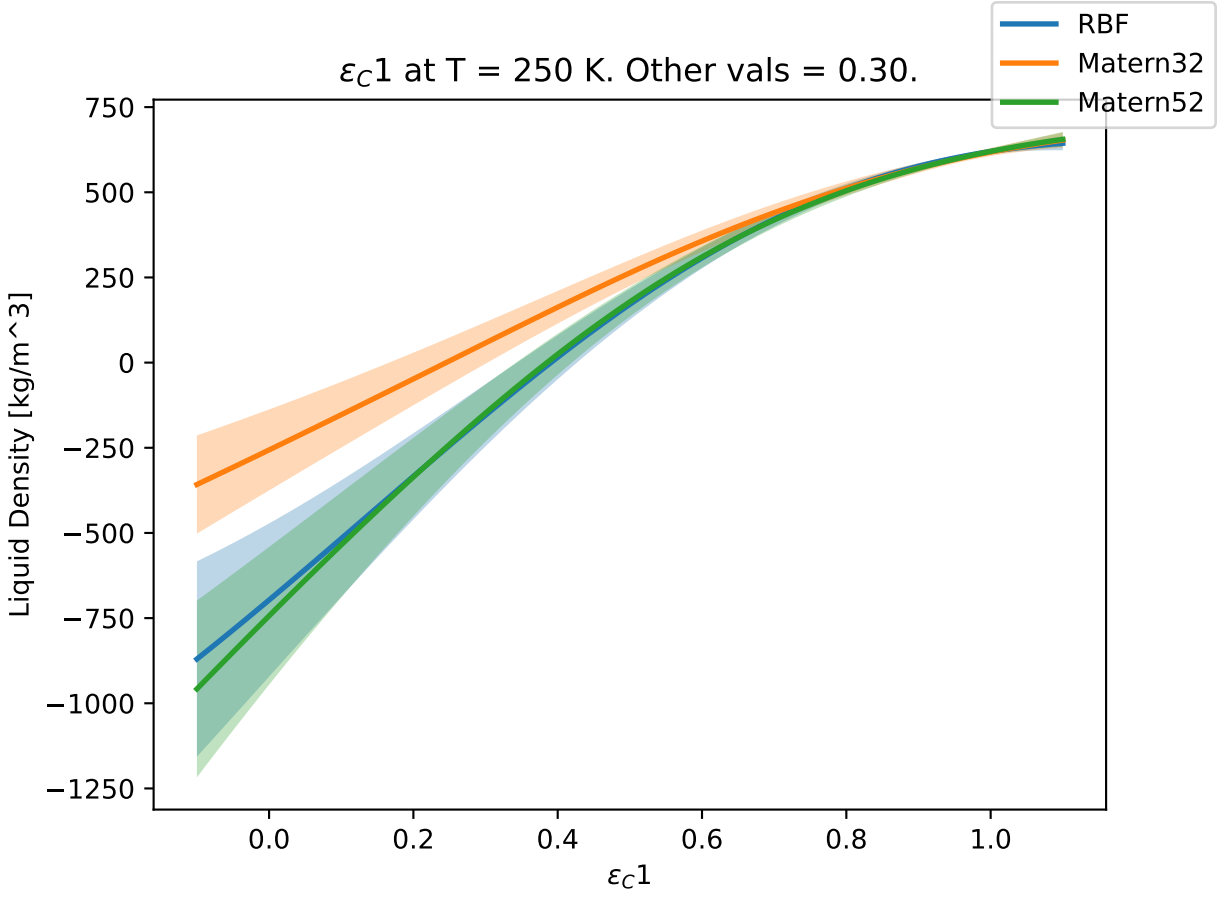

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 250 K. Other vals = 0.90.
525
500
475
450
425
400
375
Liquid Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

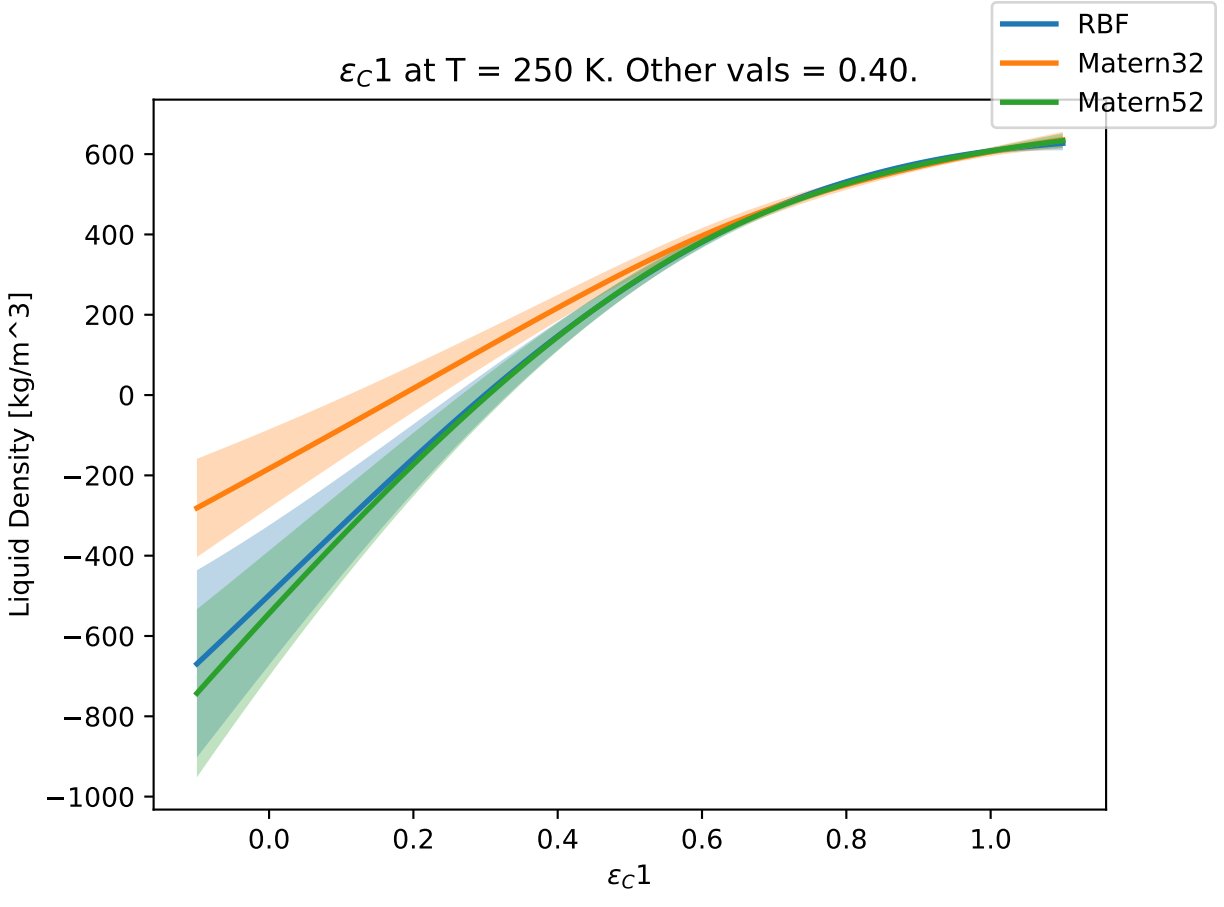

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 250 K. Other vals = 1.00.
Liquid Density [kg/m^3]
525
500
475
450
425
400
375
350
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

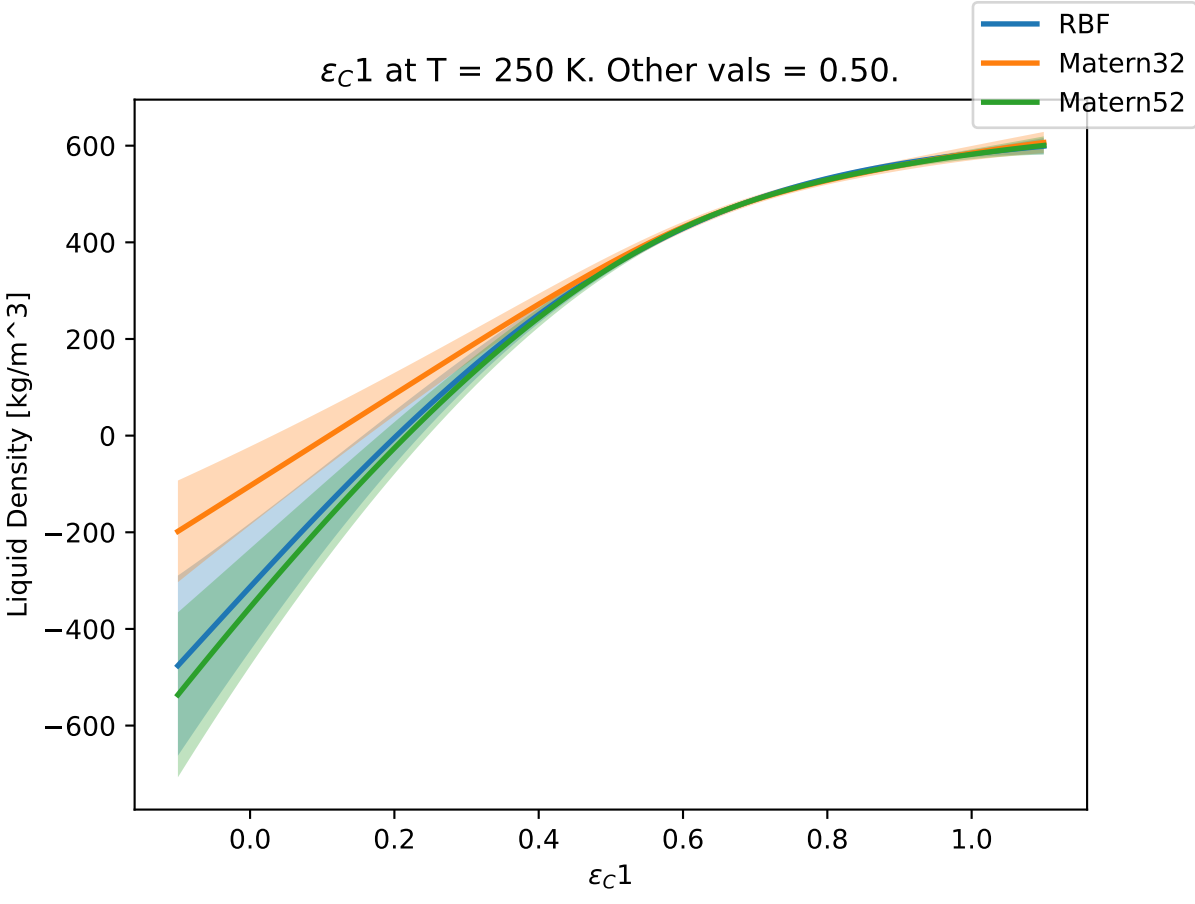

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 250 K. Other vals = 0.00.
500
0
−500
−1000
−1500
−2000
Liquid Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

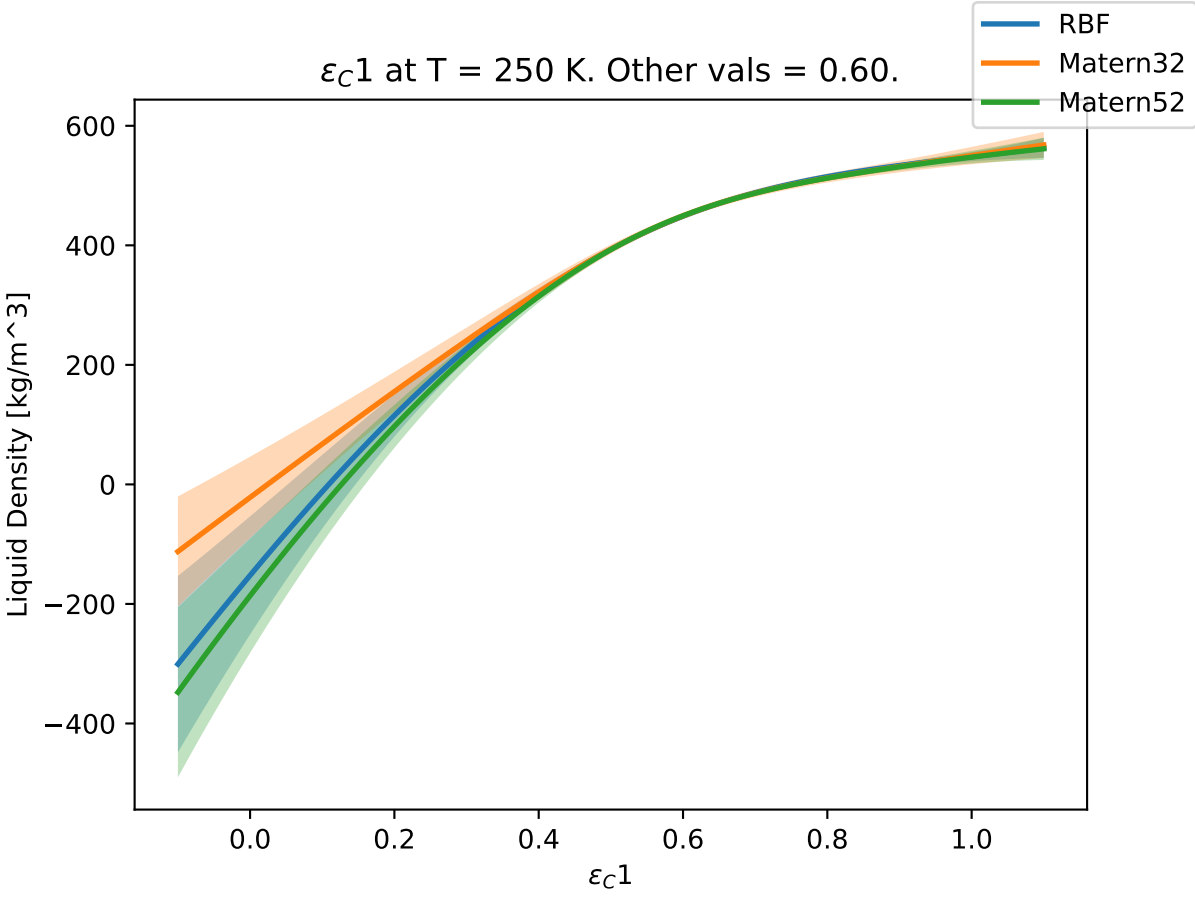

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 250 K. Other vals = 0.10.
500
0
−500
−1000
−1500
Liquid Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

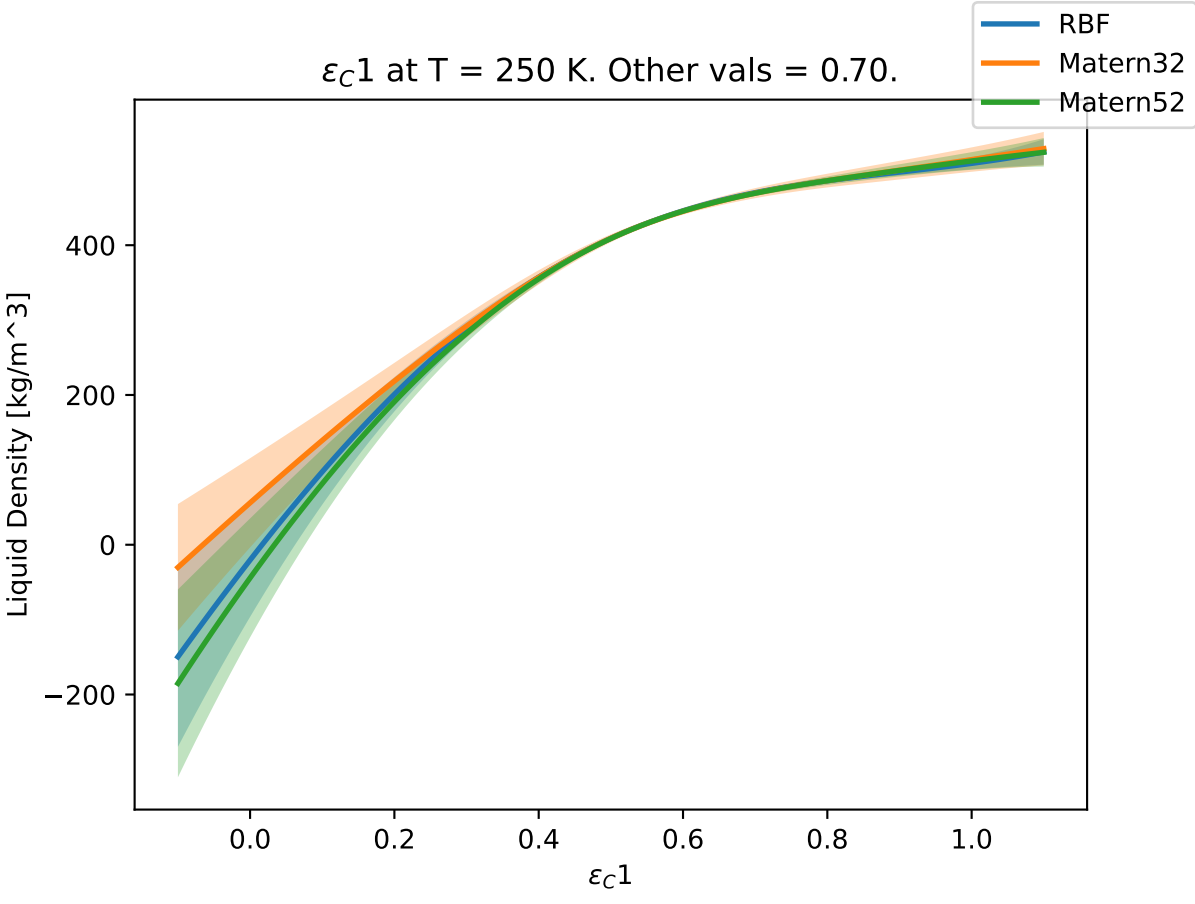

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 250 K. Other vals = 0.20.
500
0
−500
−1000
−1500
Liquid Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

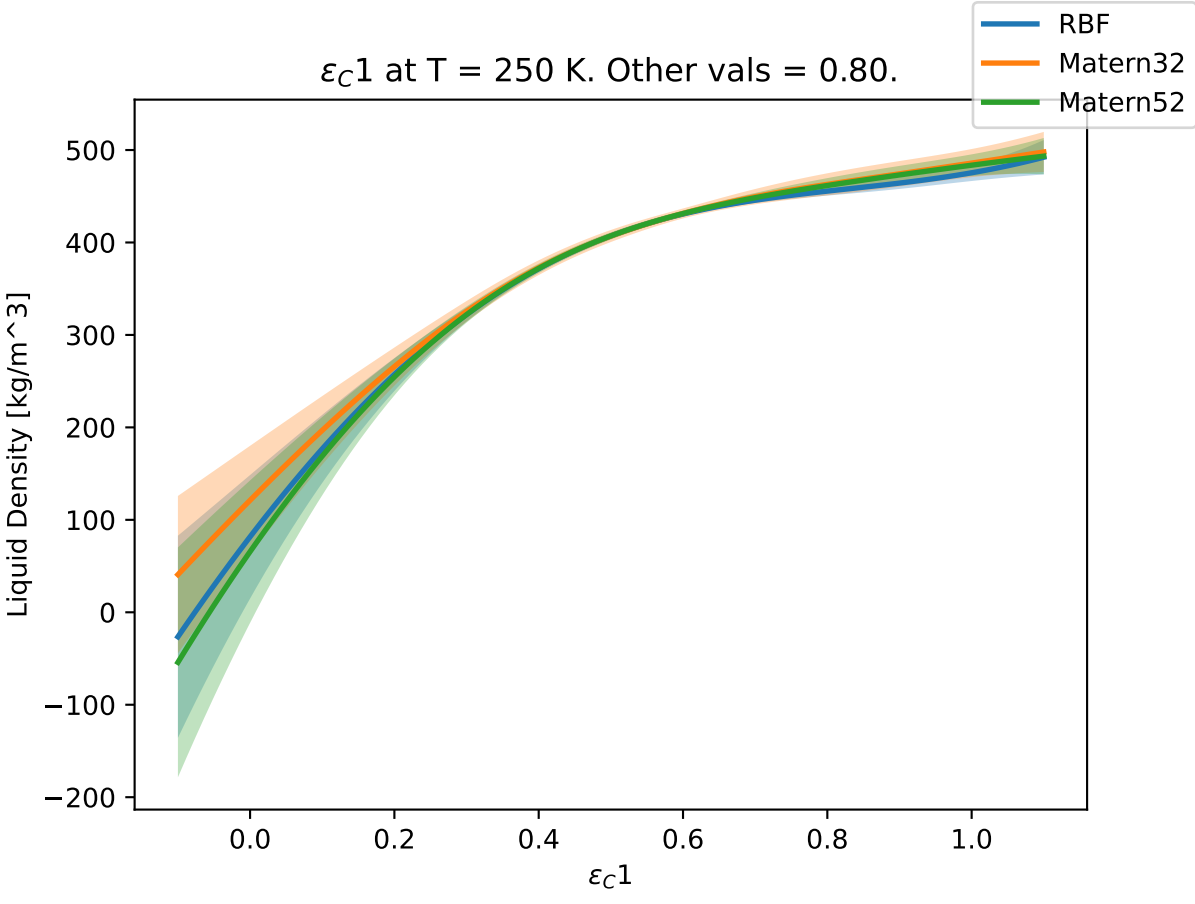

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 250 K. Other vals = 0.30.
750
500
250
0
−250
−500
−750
−1000
−1250
Liquid Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

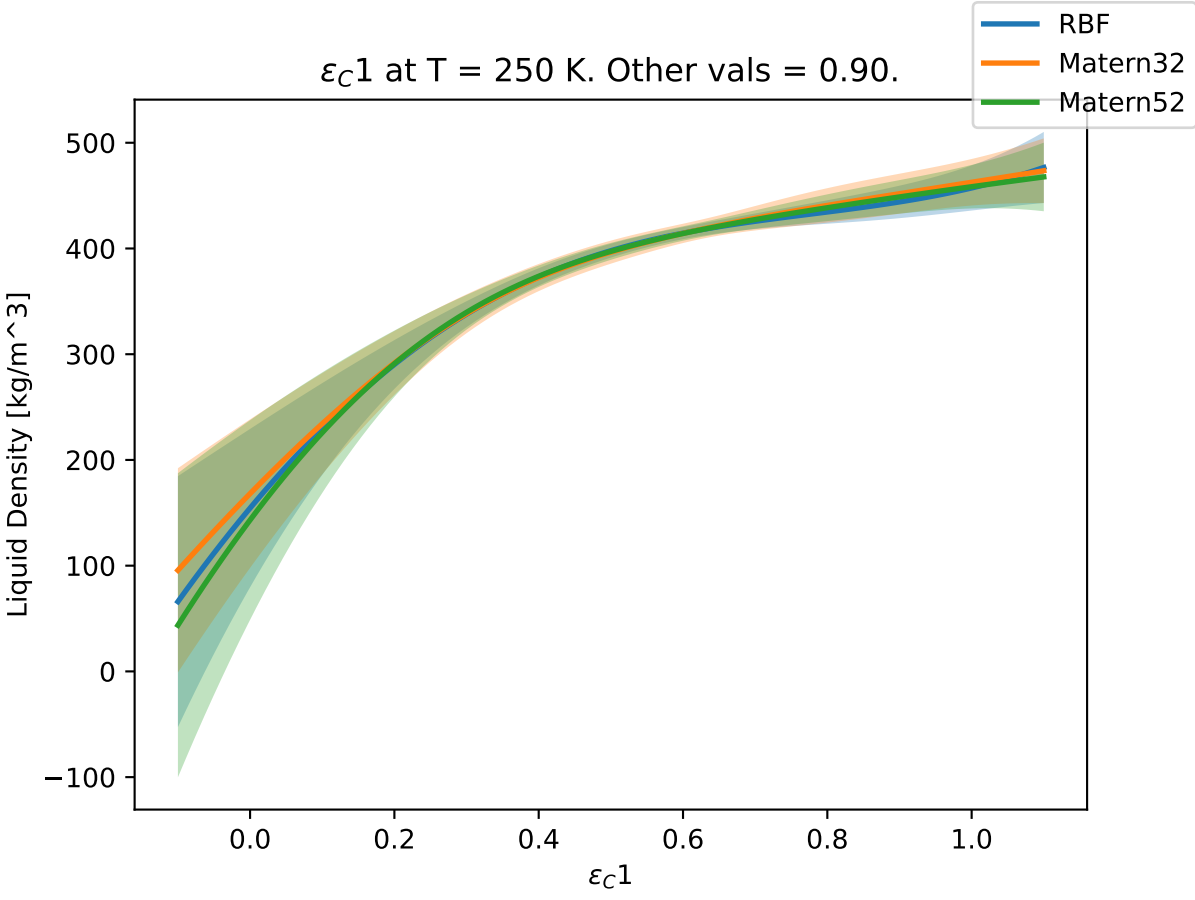

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 250 K. Other vals = 0.40.
Liquid Density [kg/m^3]
600
400
200
0
−200
−400
−600
−800
−1000
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

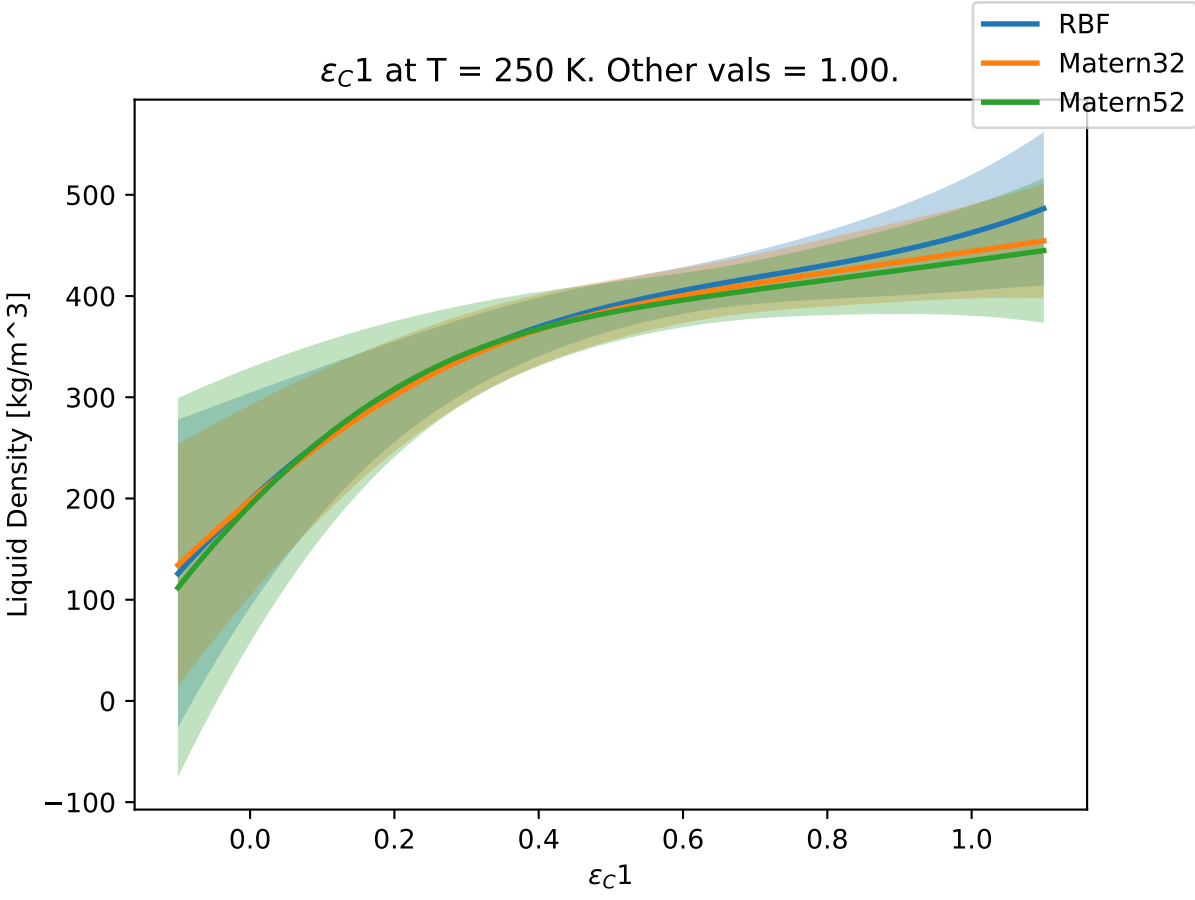

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 250 K. Other vals = 0.50.
Liquid Density [kg/m^3]
600
400
200
0
−200
−400
−600
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

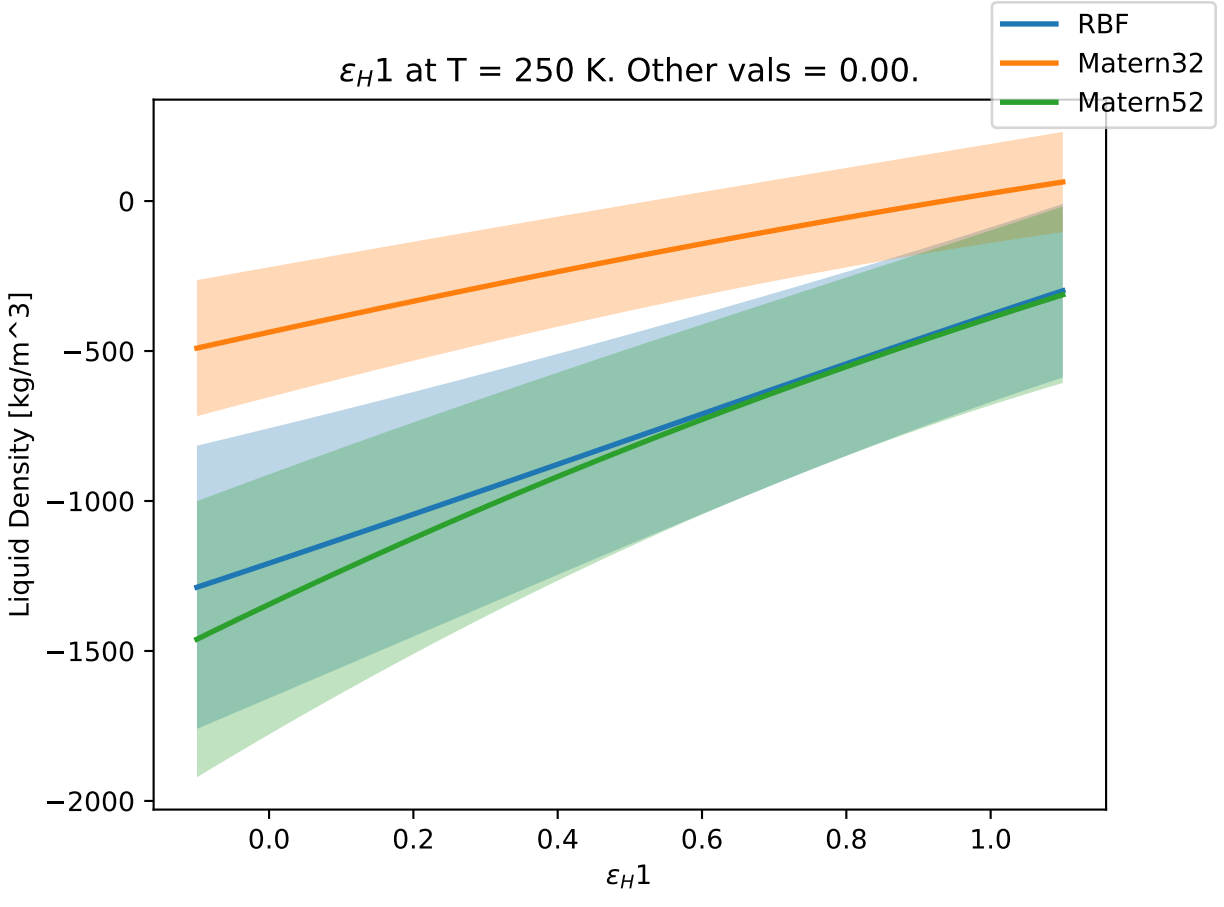

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 250 K. Other vals = 0.60.
600
400
200
0
−200
−400
Liquid Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

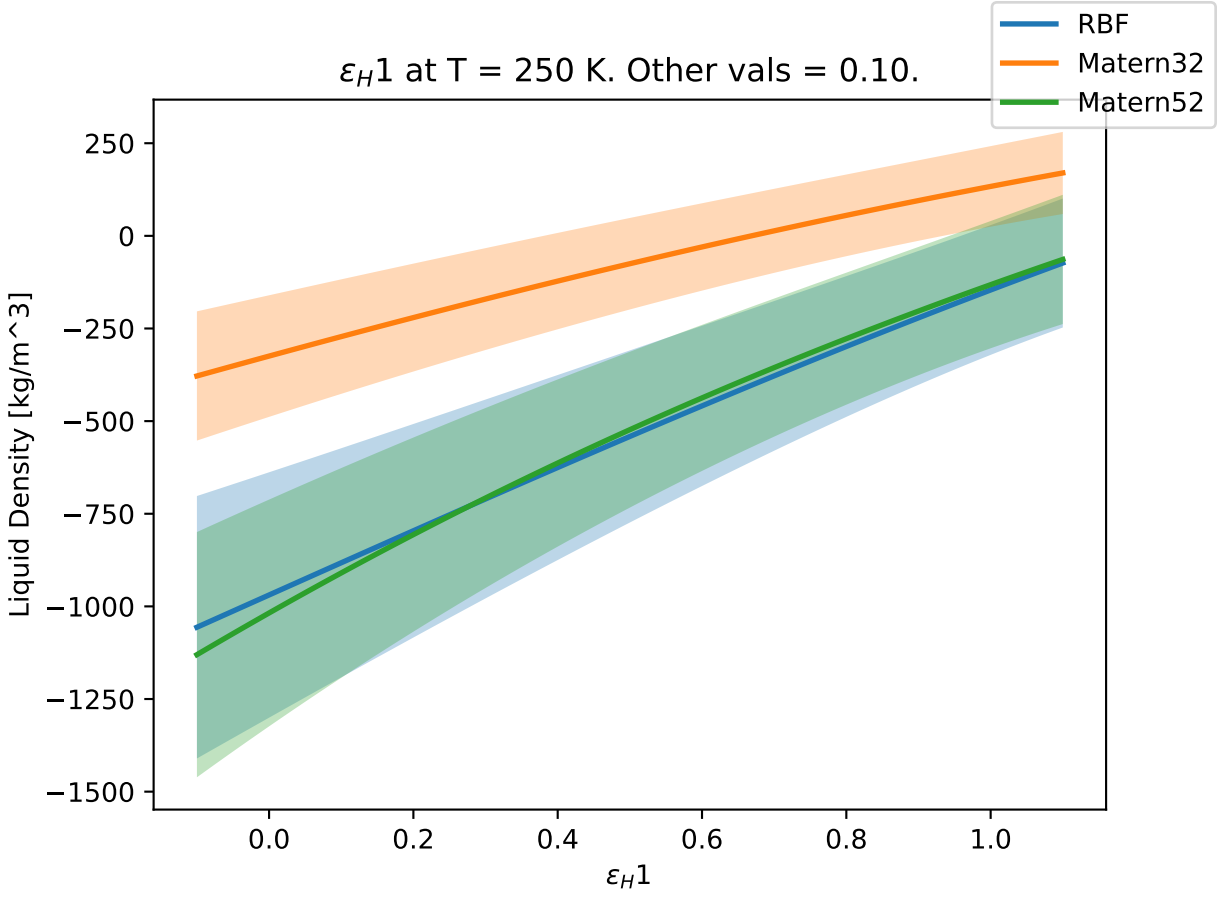

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 250 K. Other vals = 0.70.
Liquid Density [kg/m^3]
400
200
0
−200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

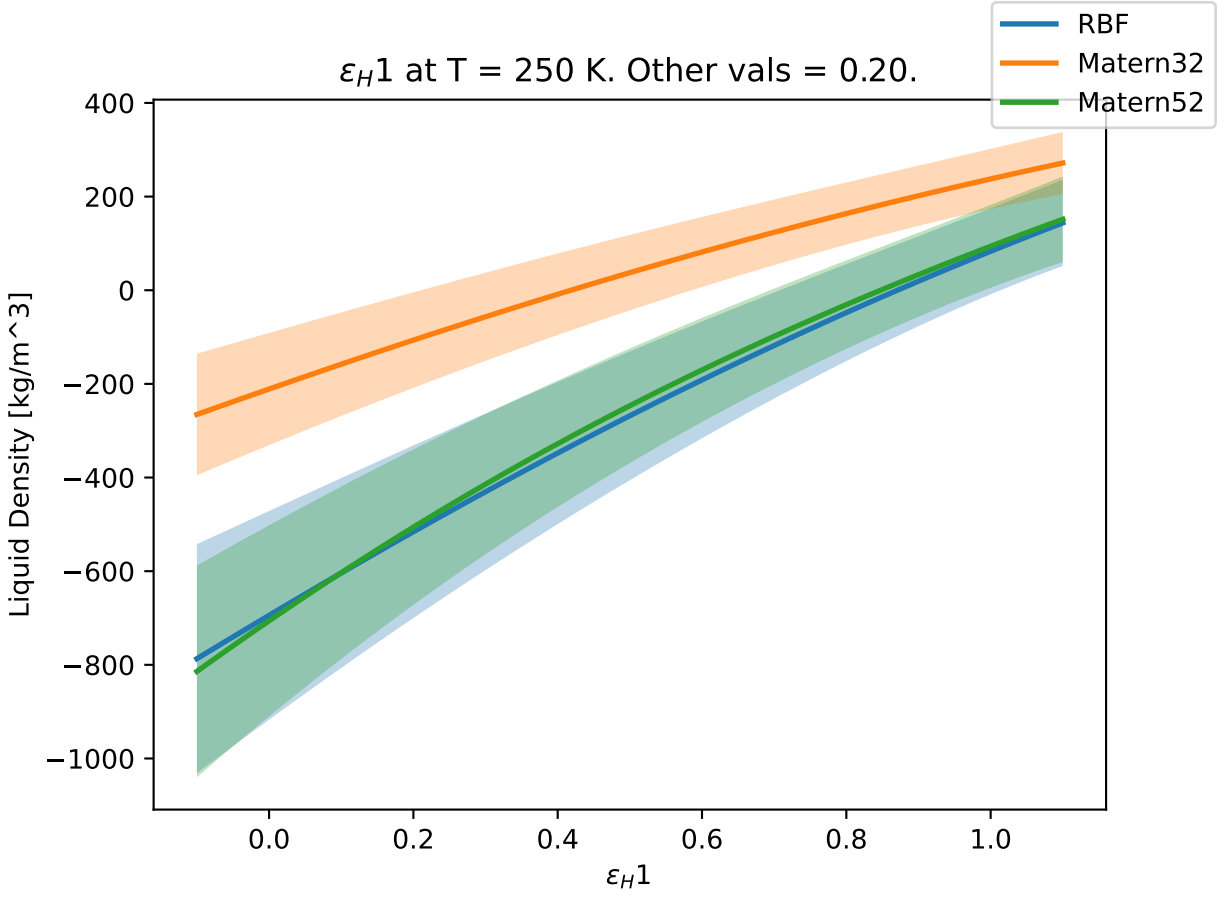

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 250 K. Other vals = 0.80.
Liquid Density [kg/m^3]
500
400
300
200
100
0
−100
−200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

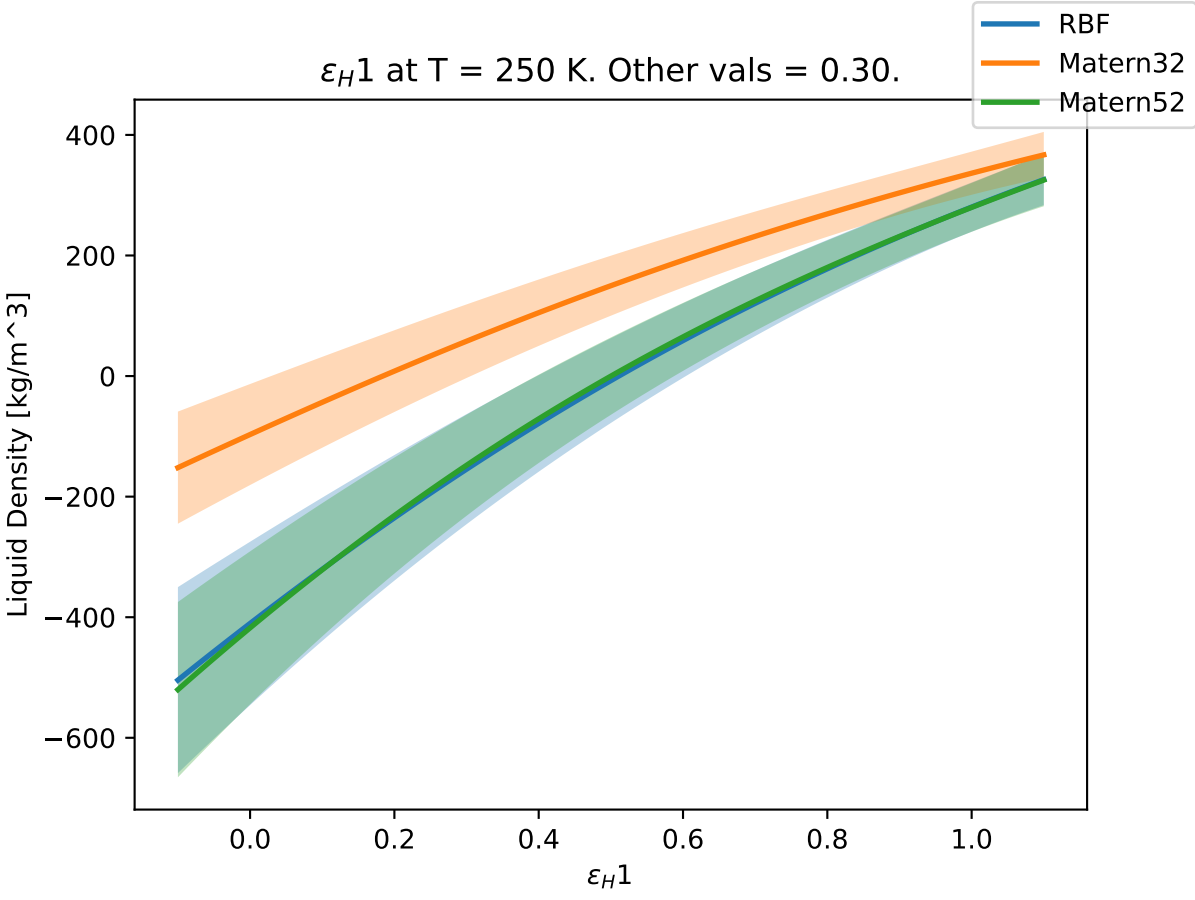

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 250 K. Other vals = 0.90.
Liquid Density [kg/m^3]
500
400
300
200
100
0
−100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

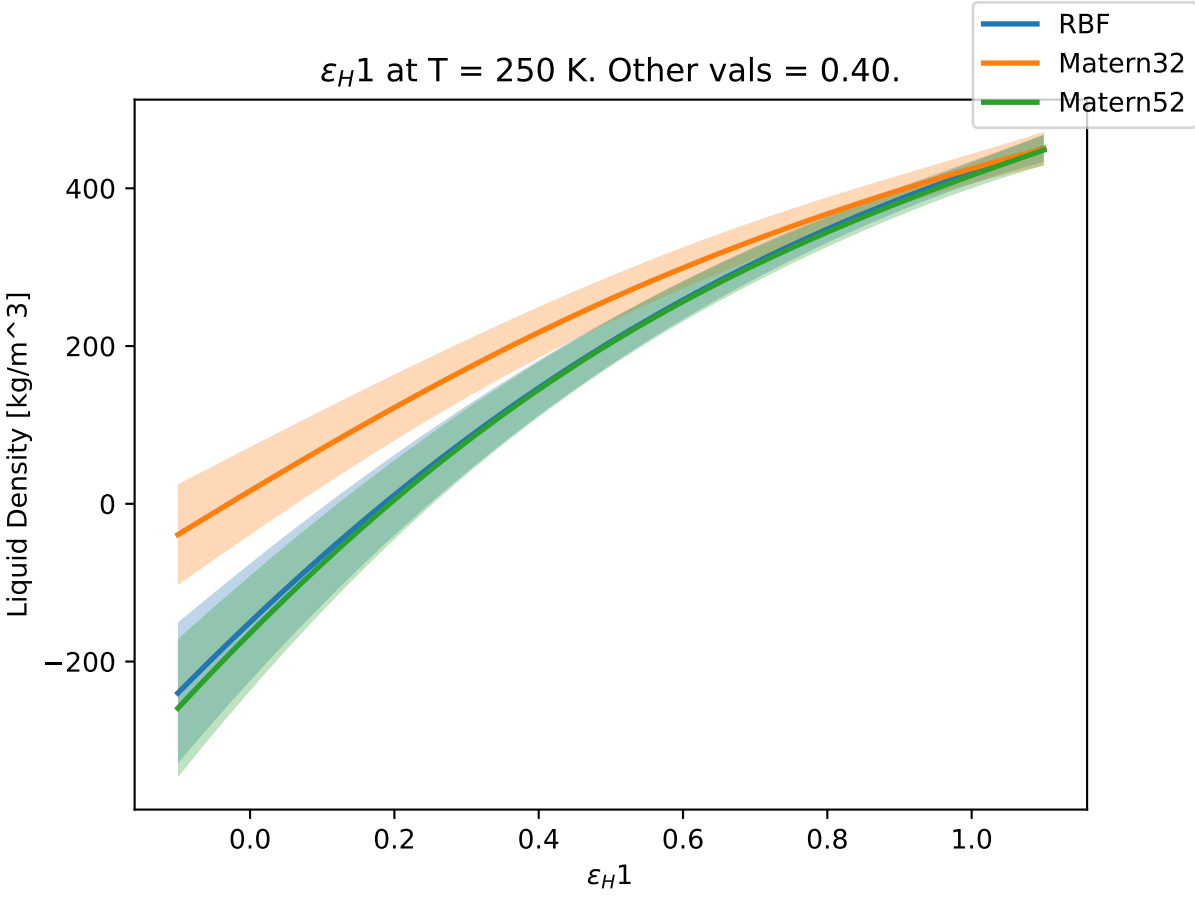

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 250 K. Other vals = 1.00.
Liquid Density [kg/m^3]
500
400
300
200
100
0
−100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

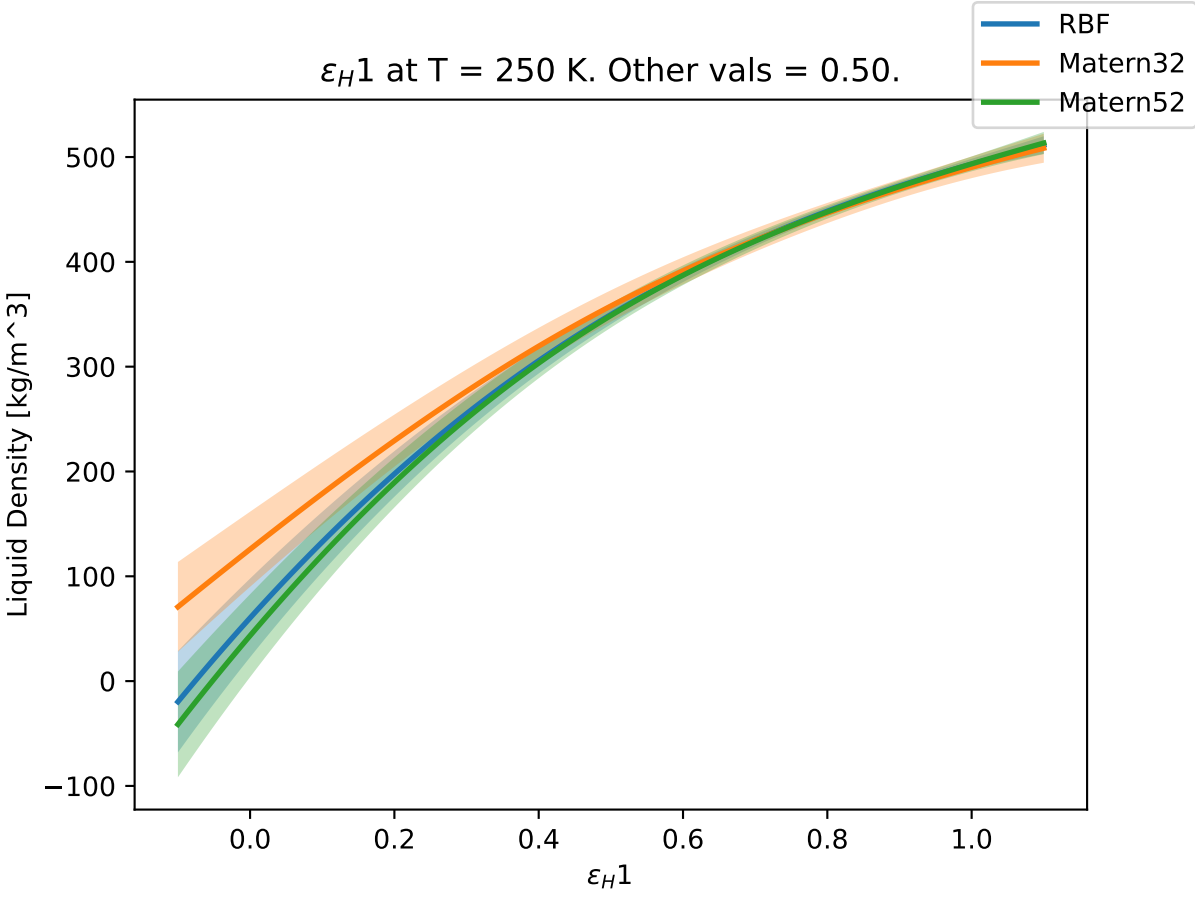

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 250 K. Other vals = 0.00.
Liquid Density [kg/m^3]
0
−500
−1000
−1500
−2000
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

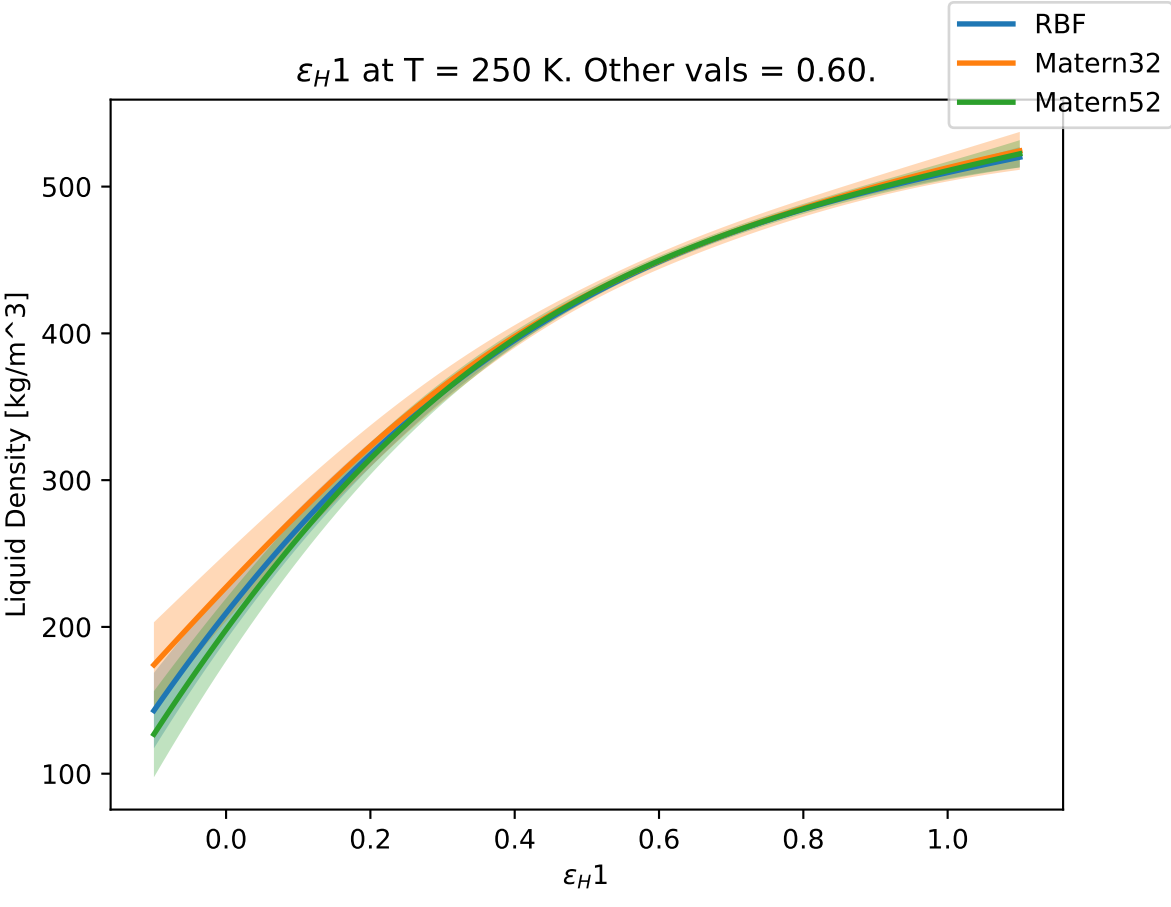

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 250 K. Other vals = 0.10.
Liquid Density [kg/m^3]
250
0
−250
−500
−750
−1000
−1250
−1500
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

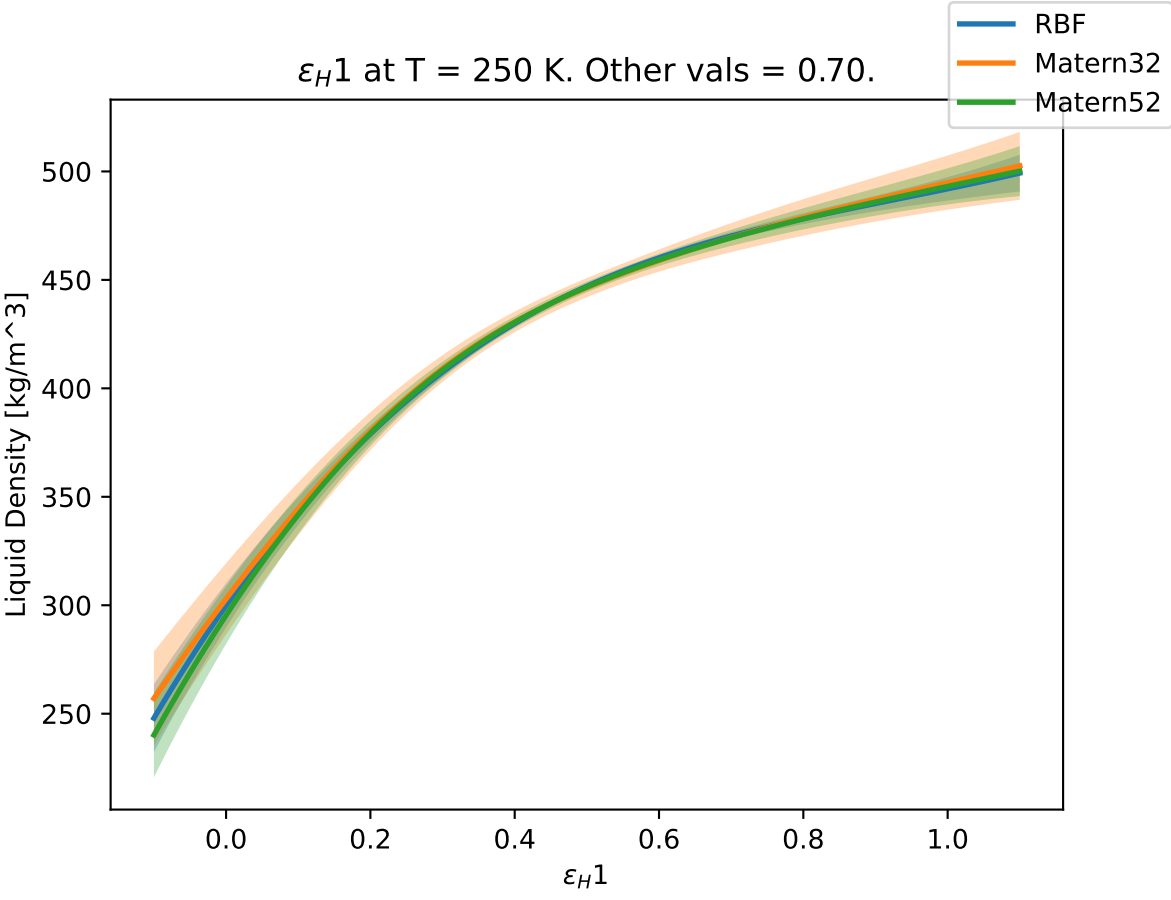

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 250 K. Other vals = 0.20.
400
200
0
−200
−400
−600
−800
−1000
Liquid Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

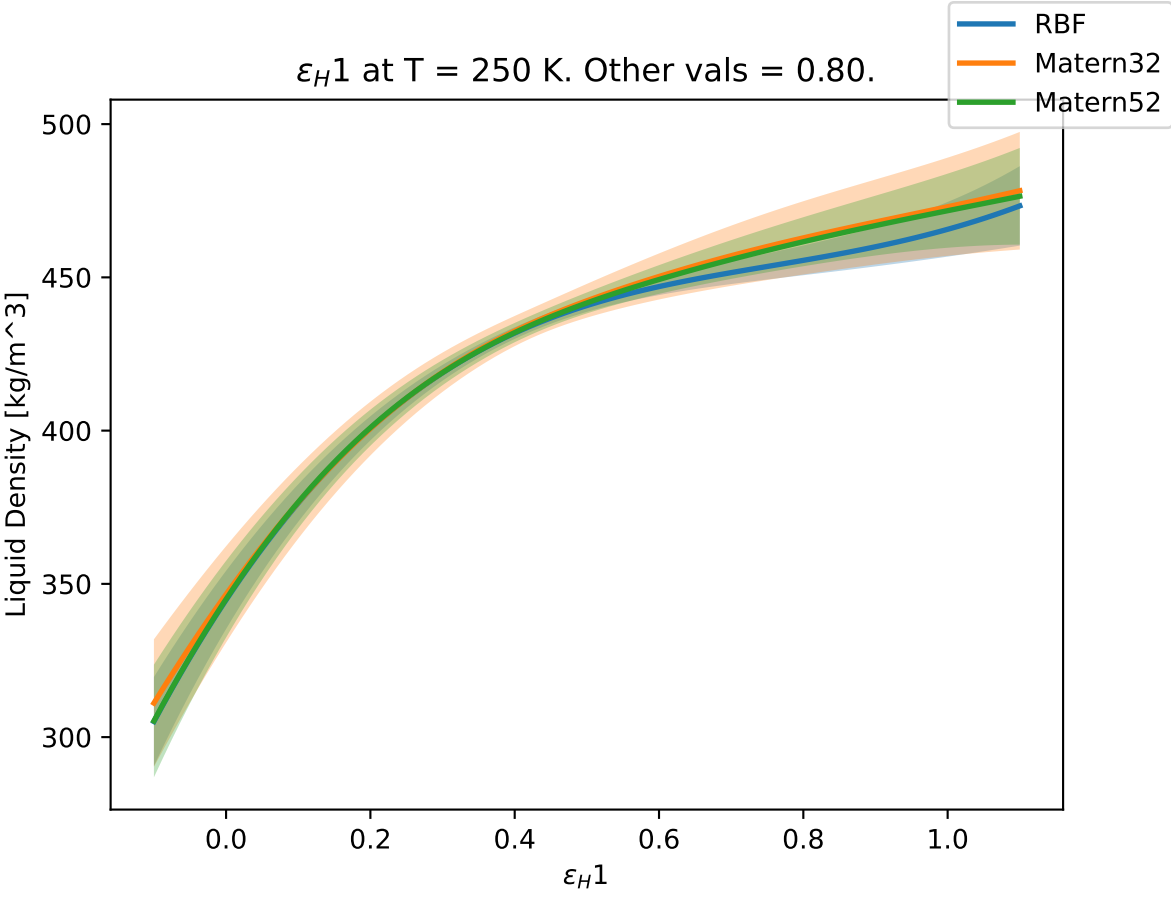

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 250 K. Other vals = 0.30.
Liquid Density [kg/m^3]
400
200
0
−200
−400
−600
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

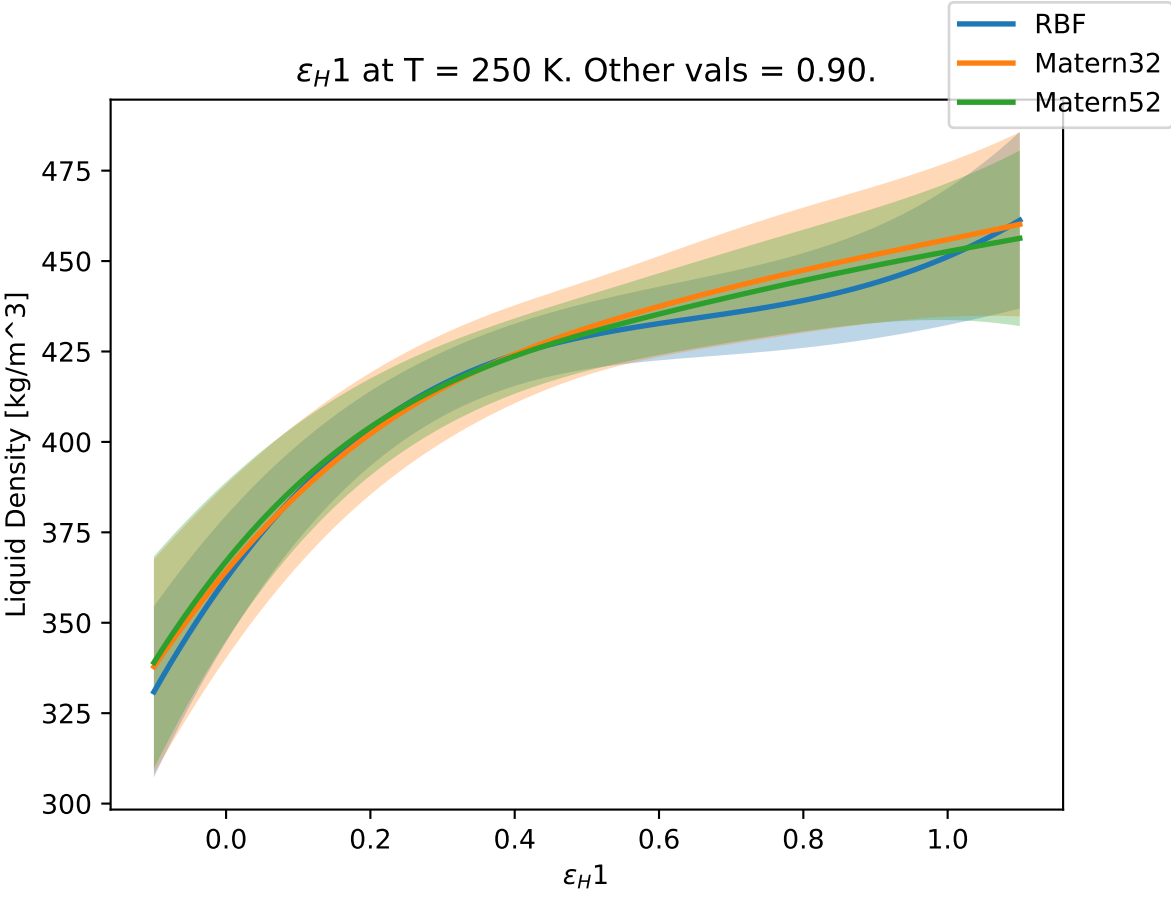

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 250 K. Other vals = 0.40.
400
200
0
−200
Liquid Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

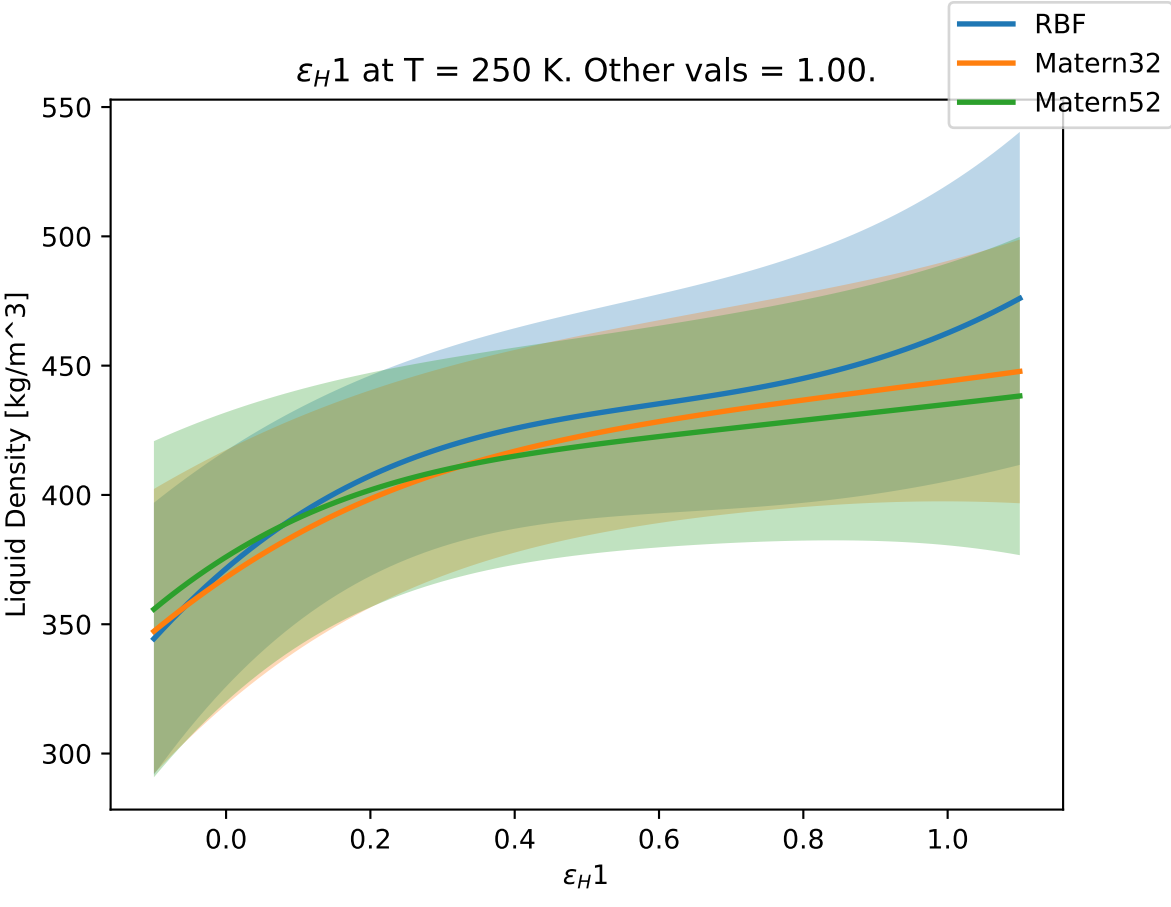

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 250 K. Other vals = 0.50.
Liquid Density [kg/m^3]
500
400
300
200
100
0
−100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

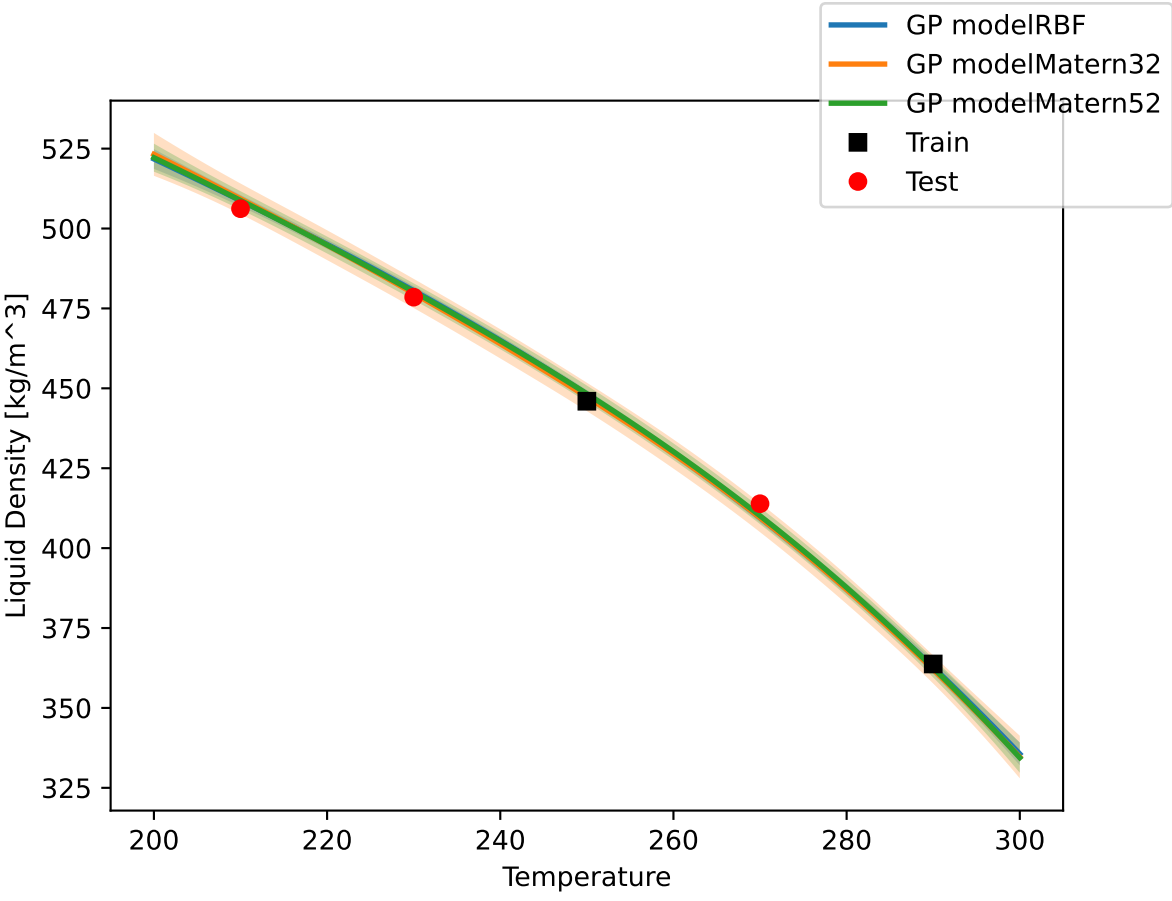

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 250 K. Other vals = 0.60.
Liquid Density [kg/m^3]
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

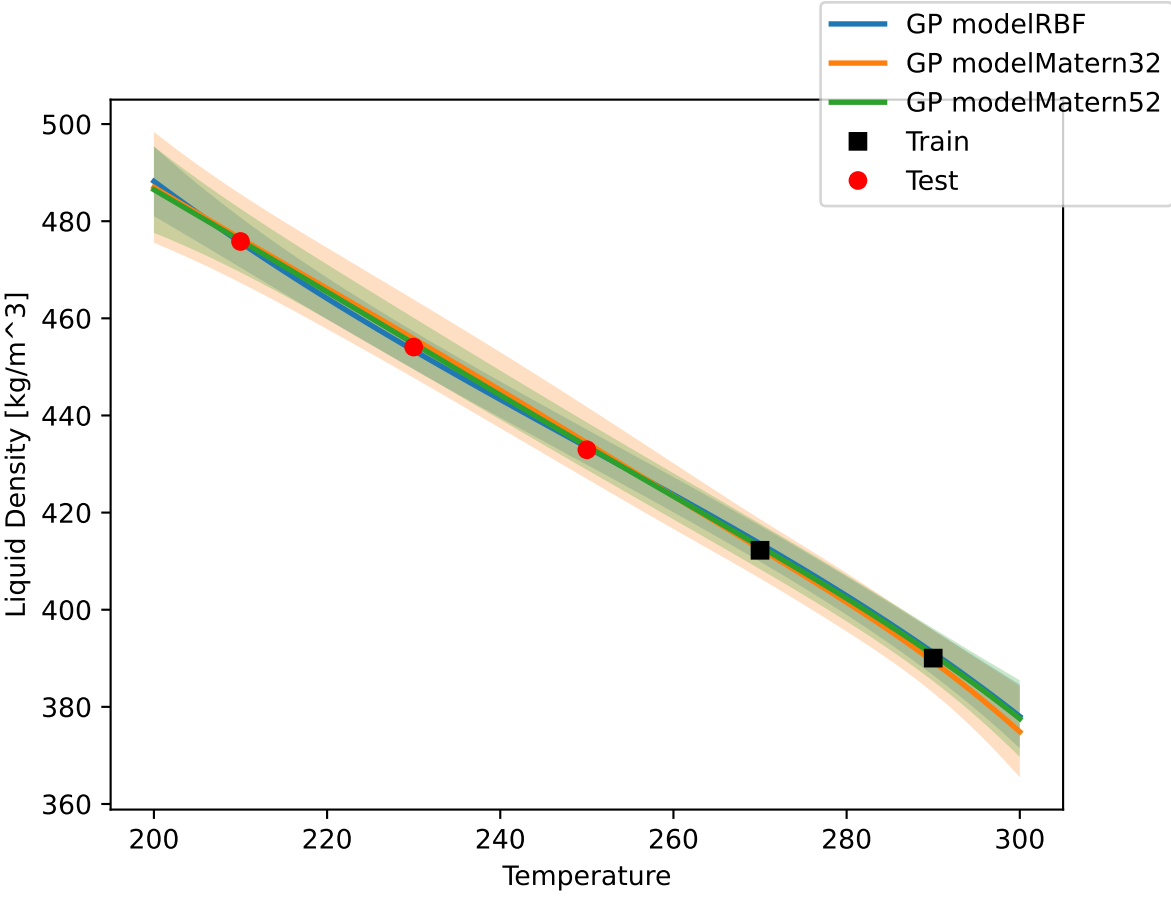

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 250 K. Other vals = 0.70.
Liquid Density [kg/m^3]
500
450
400
350
300
250
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

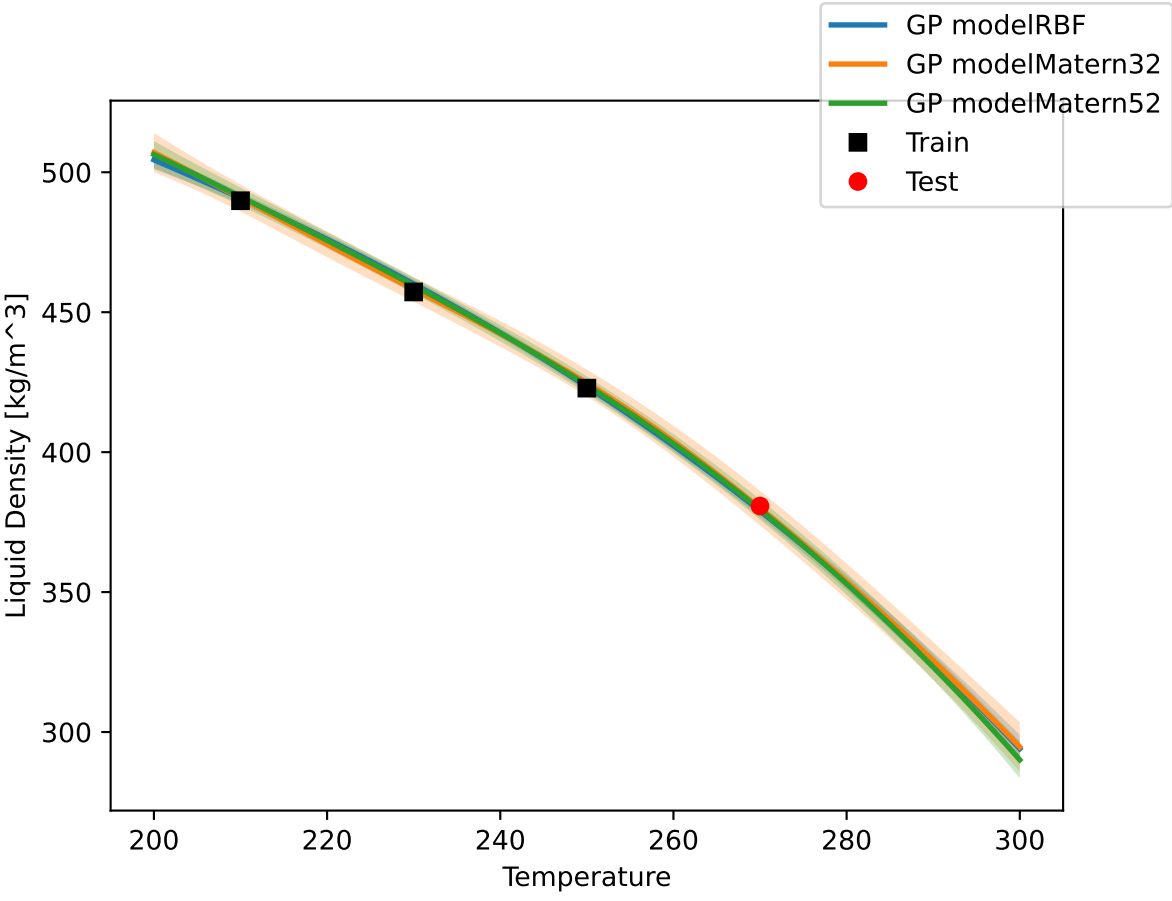

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 250 K. Other vals = 0.80.
Liquid Density [kg/m^3]
500
450
400
350
300
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

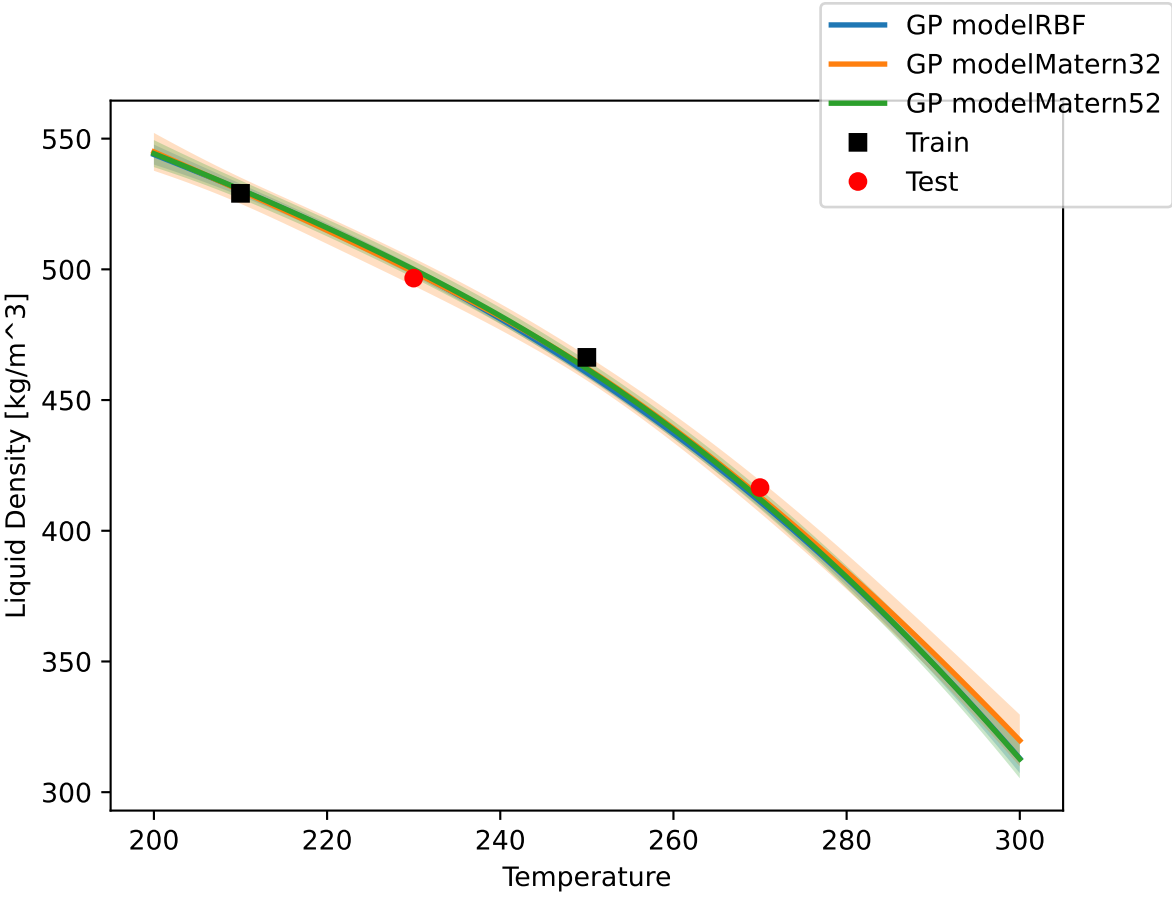

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 250 K. Other vals = 0.90.
Liquid Density [kg/m^3]
475
450
425
400
375
350
325
300
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

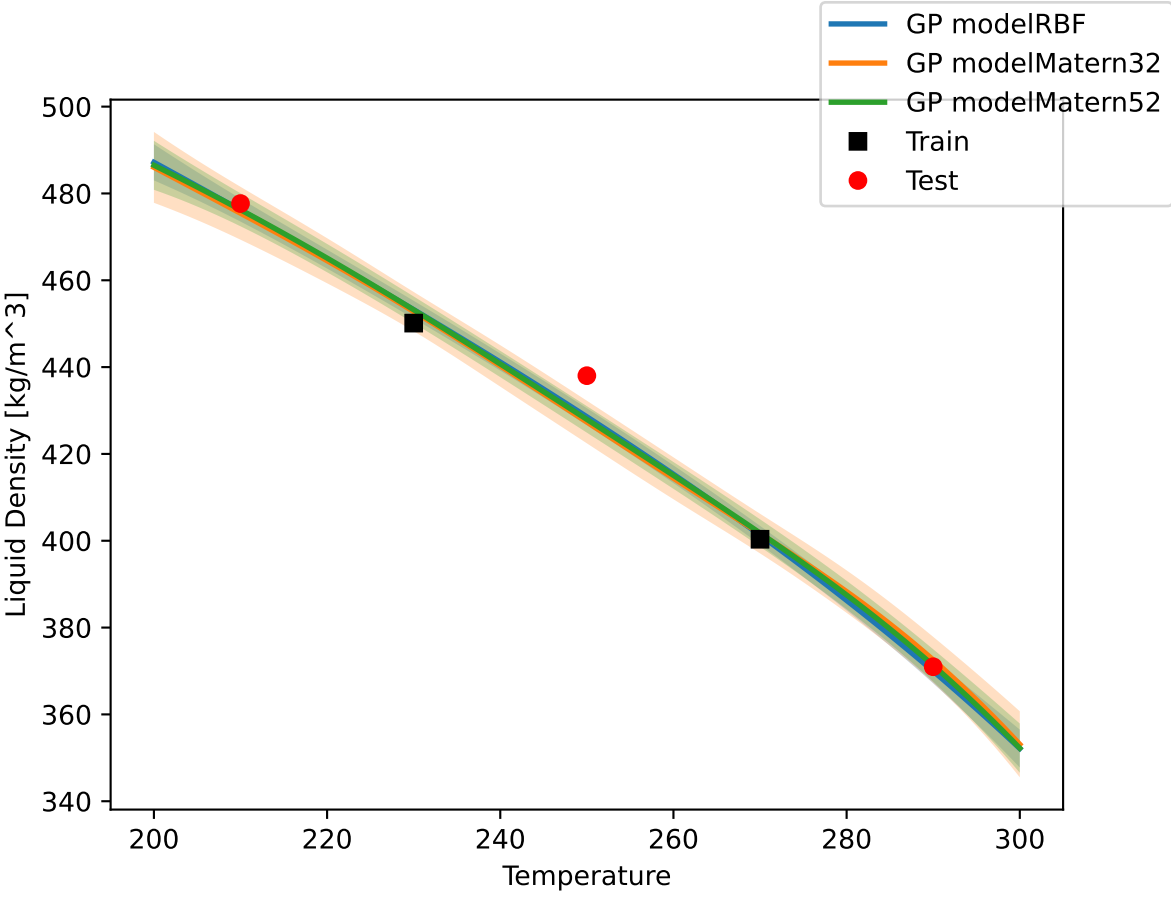

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 250 K. Other vals = 1.00.
550
500
450
400
350
300
Liquid Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

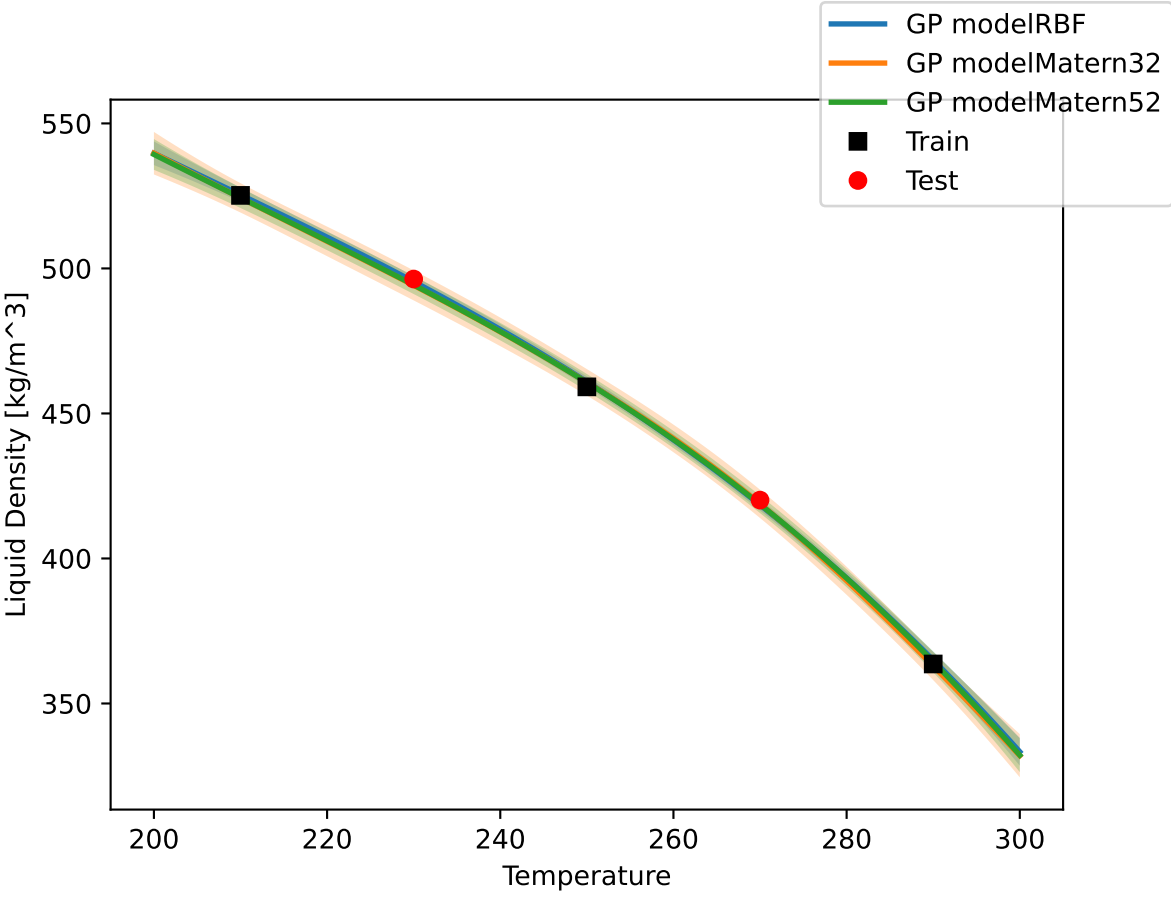

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
525
500
475
450
425
400
375
350
325
200
220
240
260
280
300
Temperature

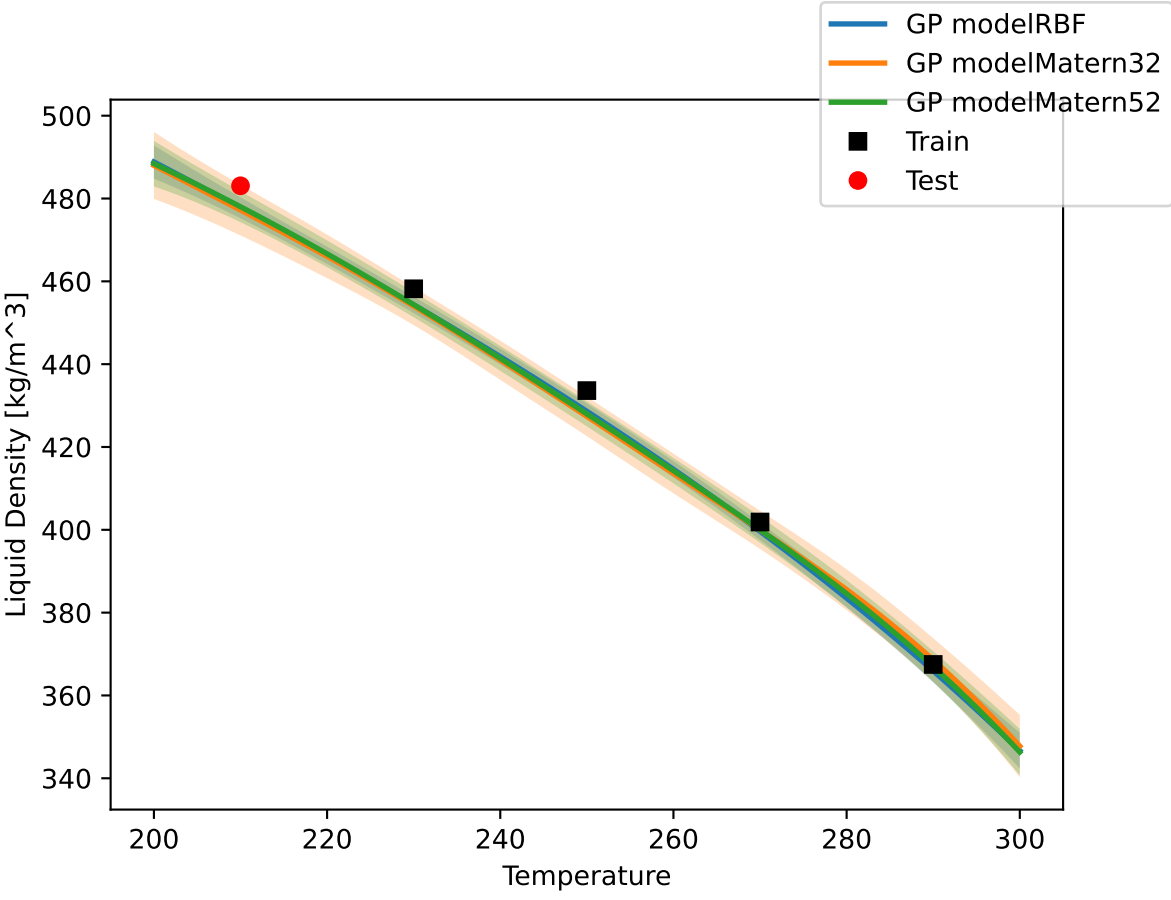

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
Temperature
500
480
460
440
420
400
380
360
200
220
240
260
280
300

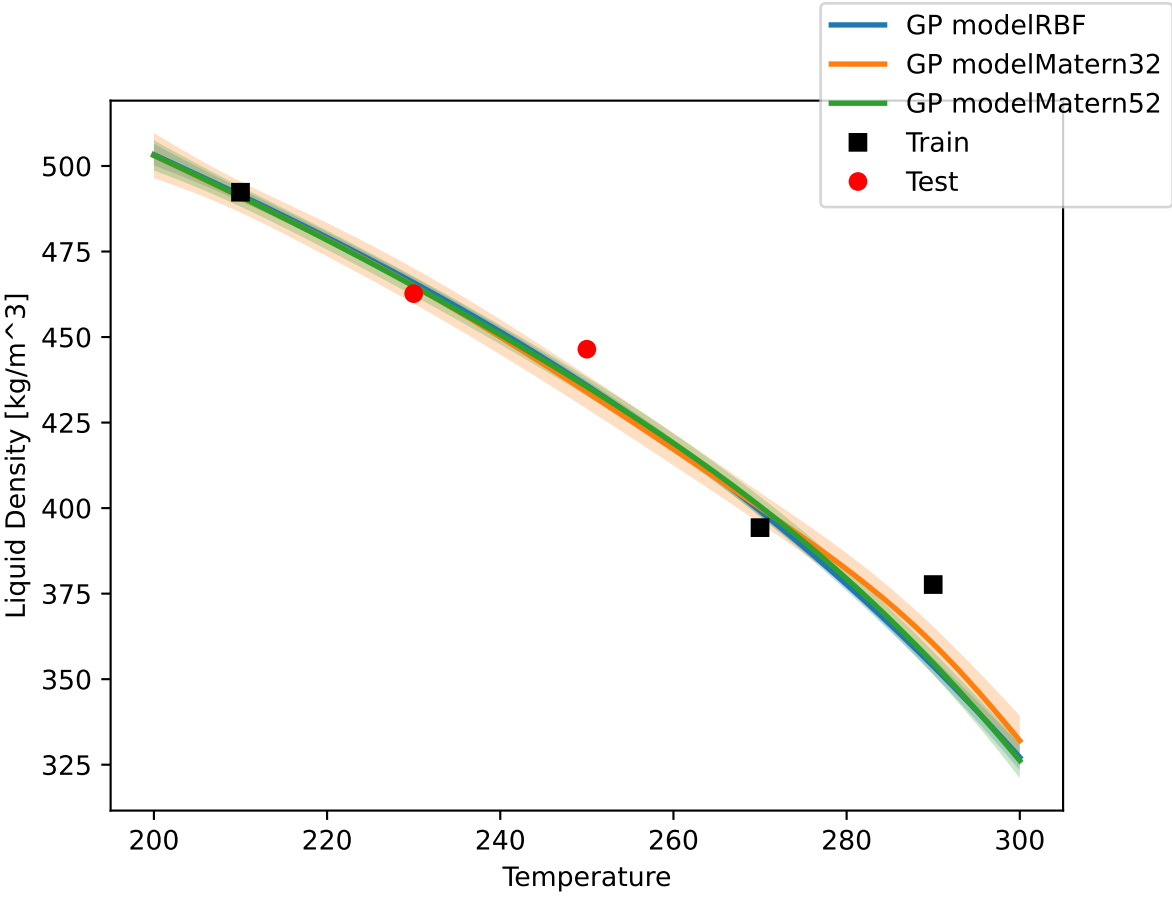

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
500
450
400
350
300
200
220
240
260
280
300
Temperature

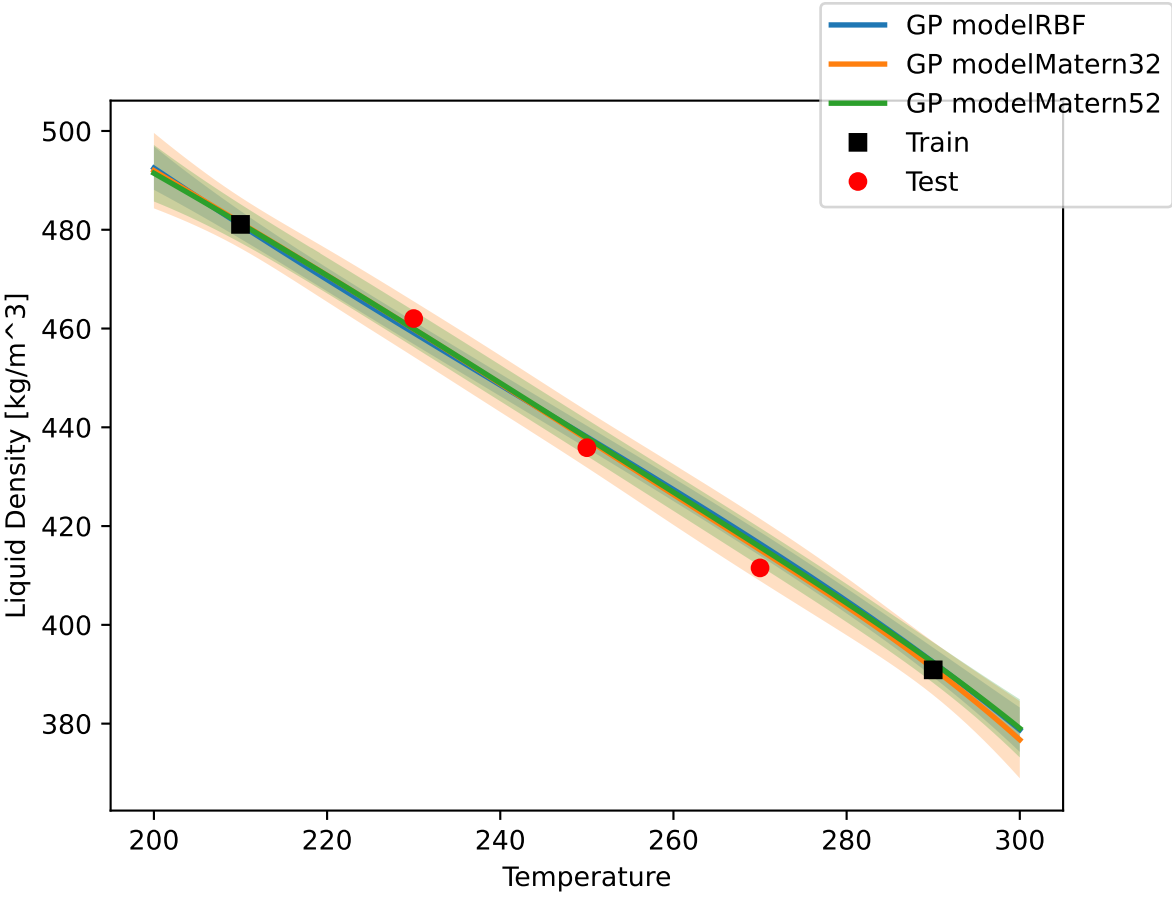

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
550
500
450
400
350
300
Liquid Density [kg/m^3]
200
220
240
260
280
300
Temperature

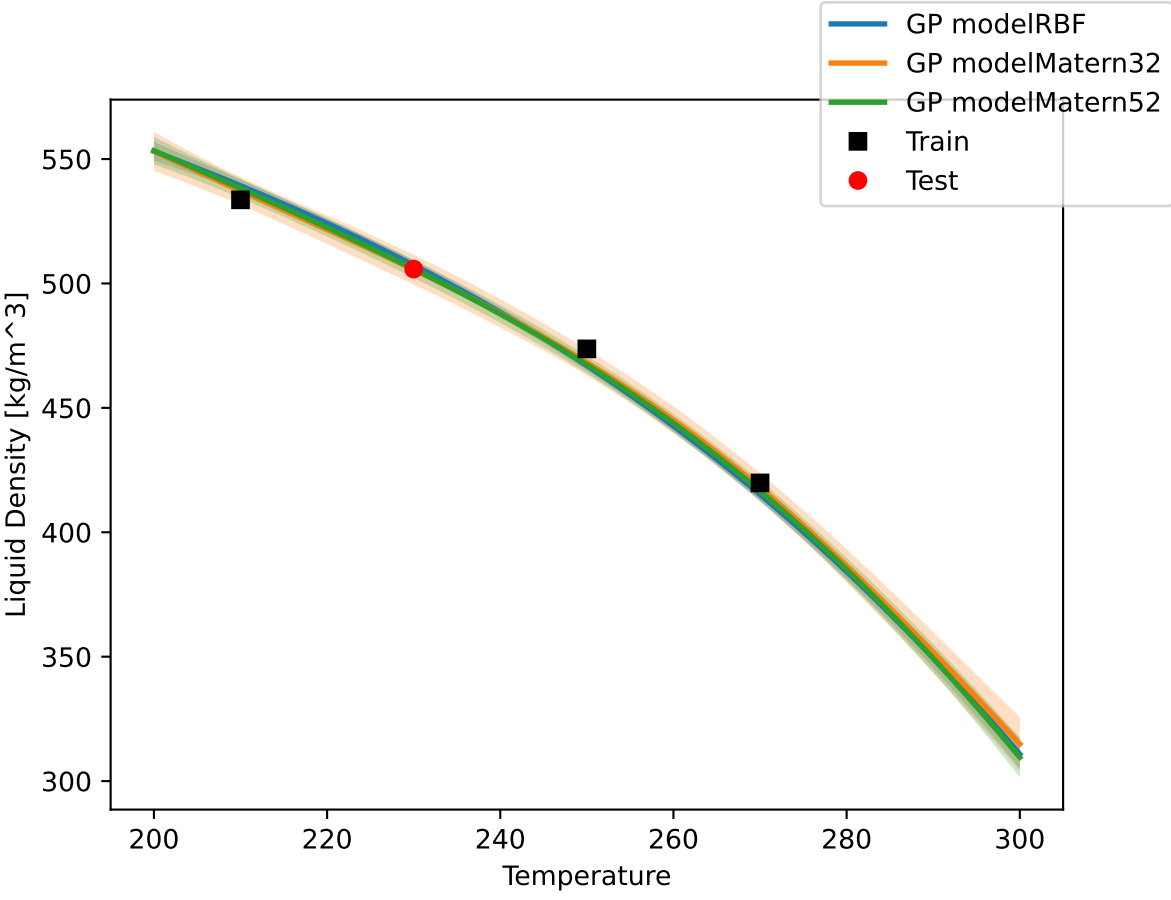

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
Temperature
500
480
460
440
420
400
380
360
340
200
220
240
260
280
300

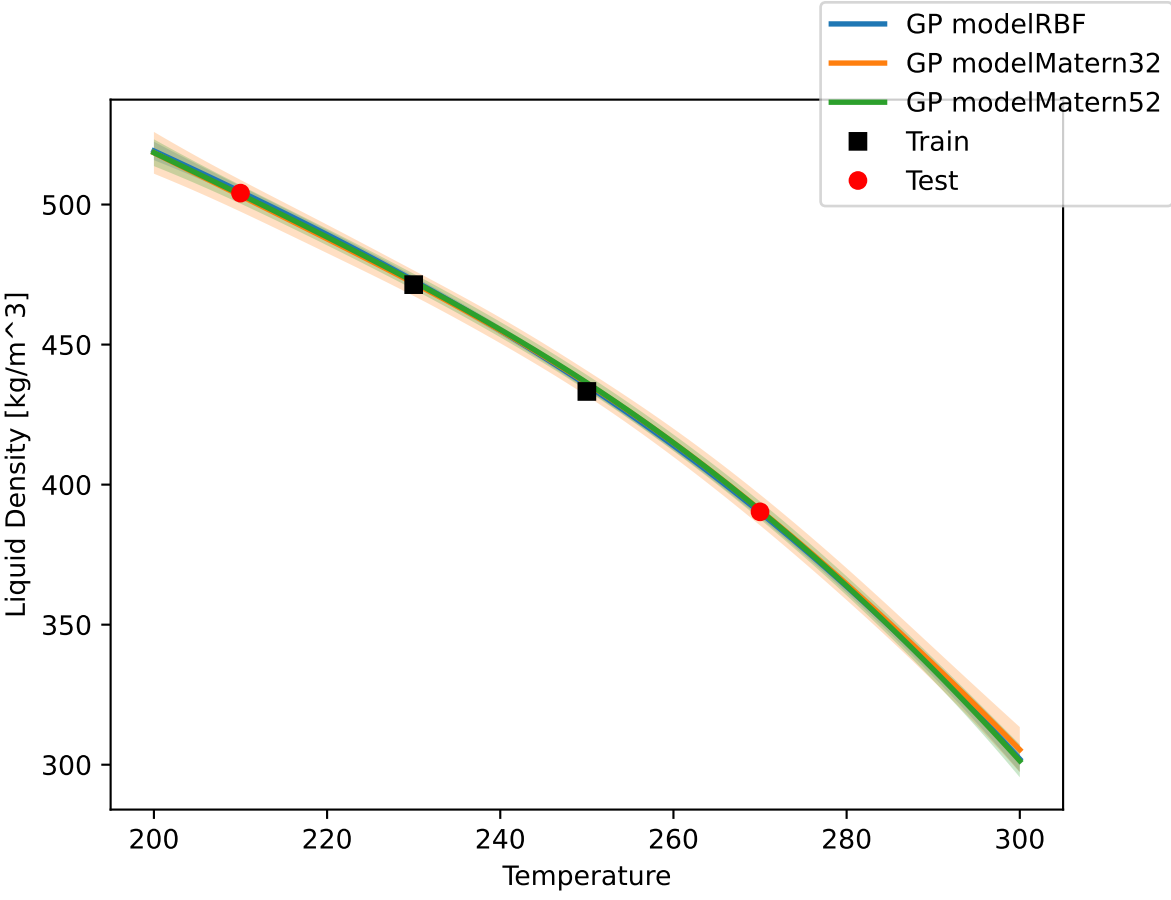

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
550
500
450
400
350
Liquid Density [kg/m^3]
200
220
240
260
280
300
Temperature


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
Temperature
500
480
460
440
420
400
380
360
340
200
220
240
260
280
300


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
500
475
450
425
400
375
350
325
200
220
240
260
280
300
Temperature


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
500
480
460
440
420
400
380
200
220
240
260
280
300
Temperature


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
550
500
450
400
350
300
200
220
240
260
280
300
Temperature


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
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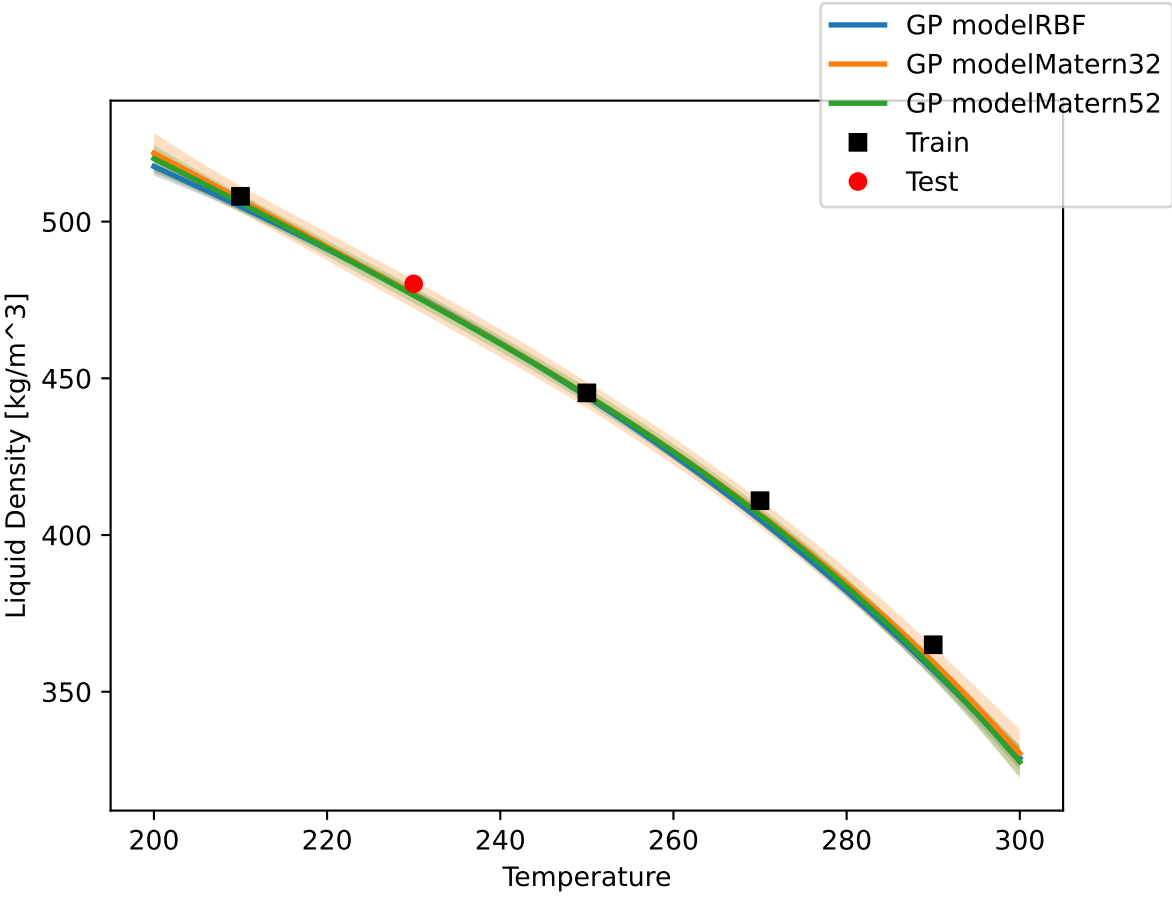
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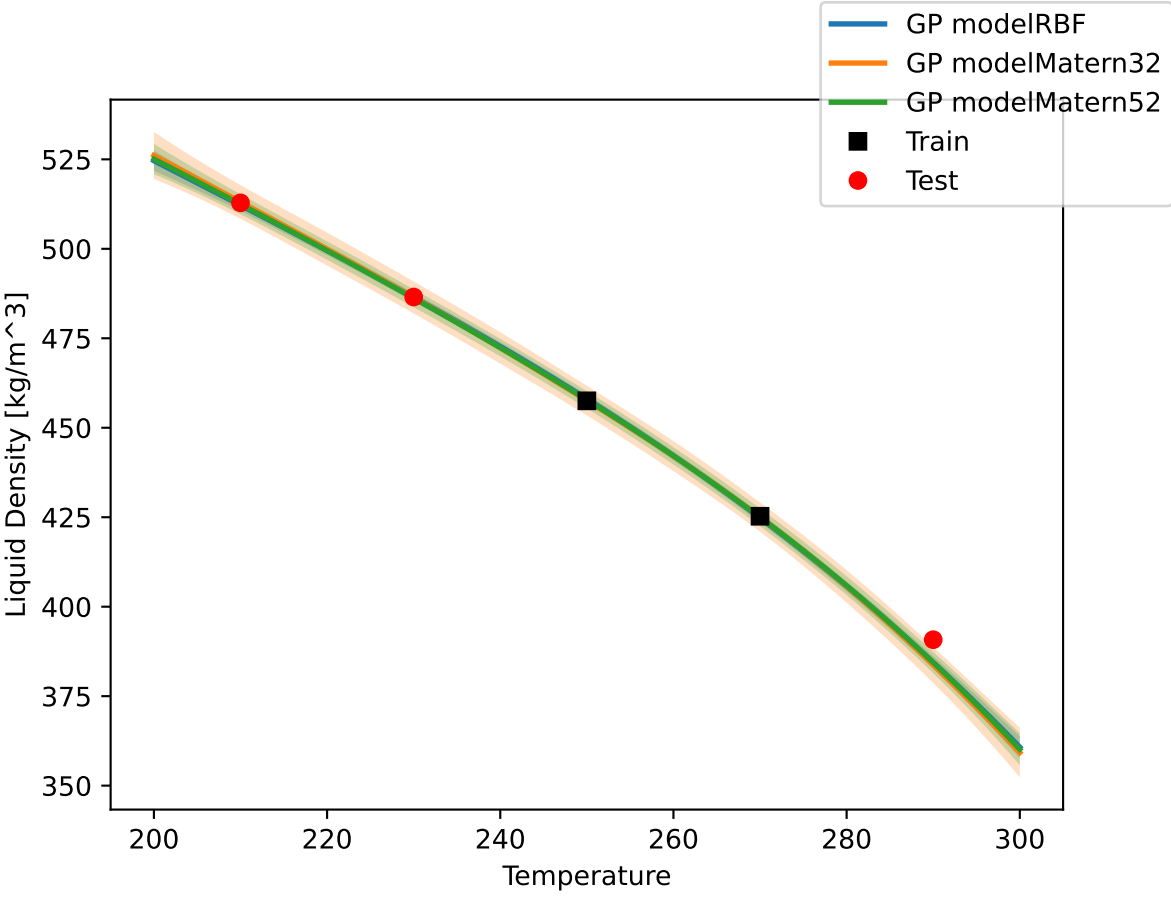
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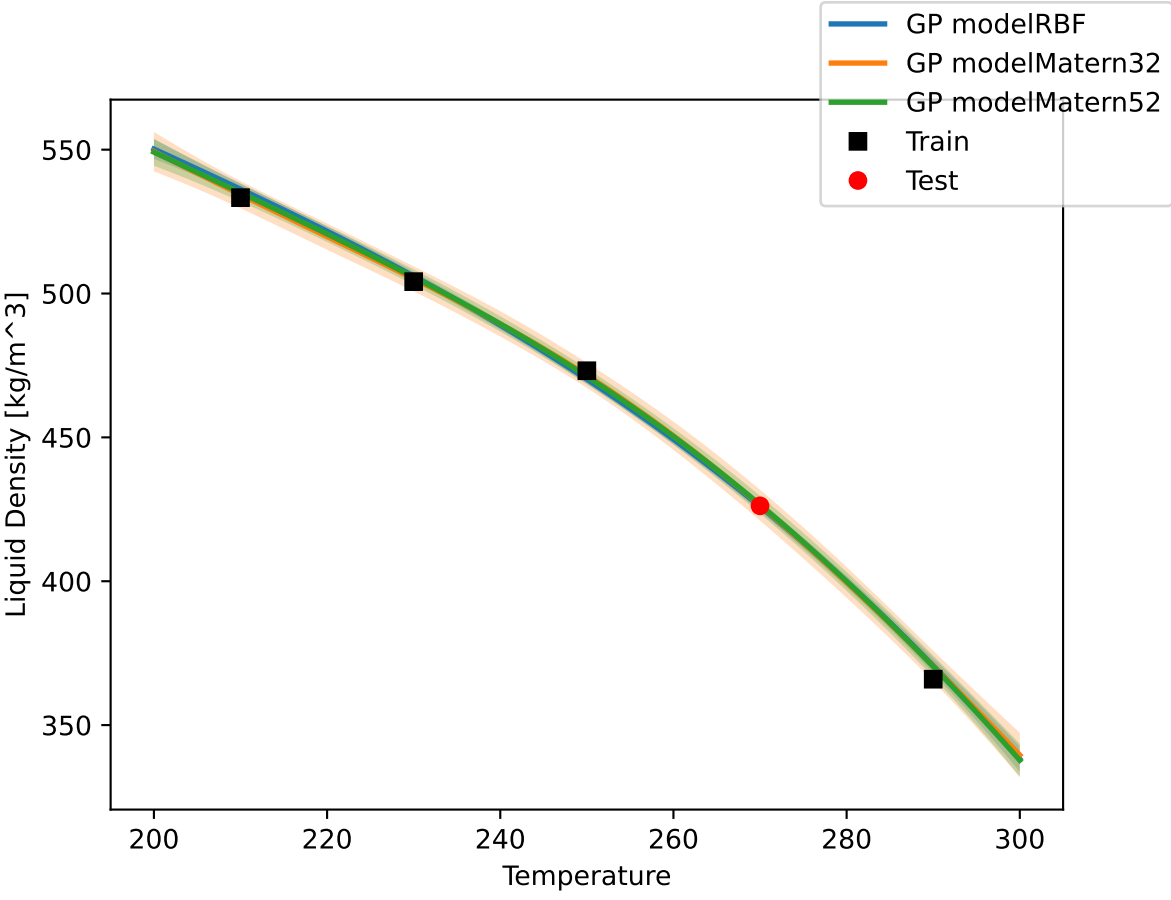
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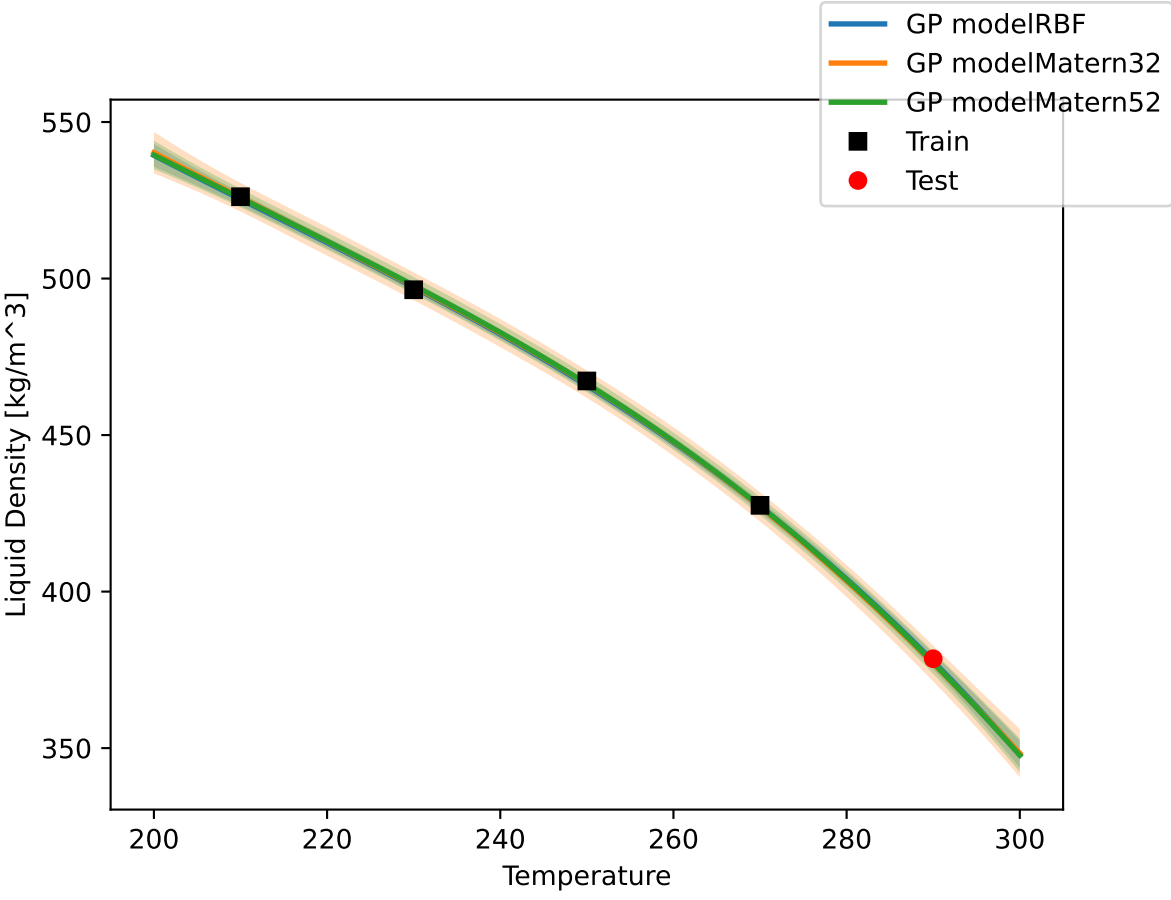
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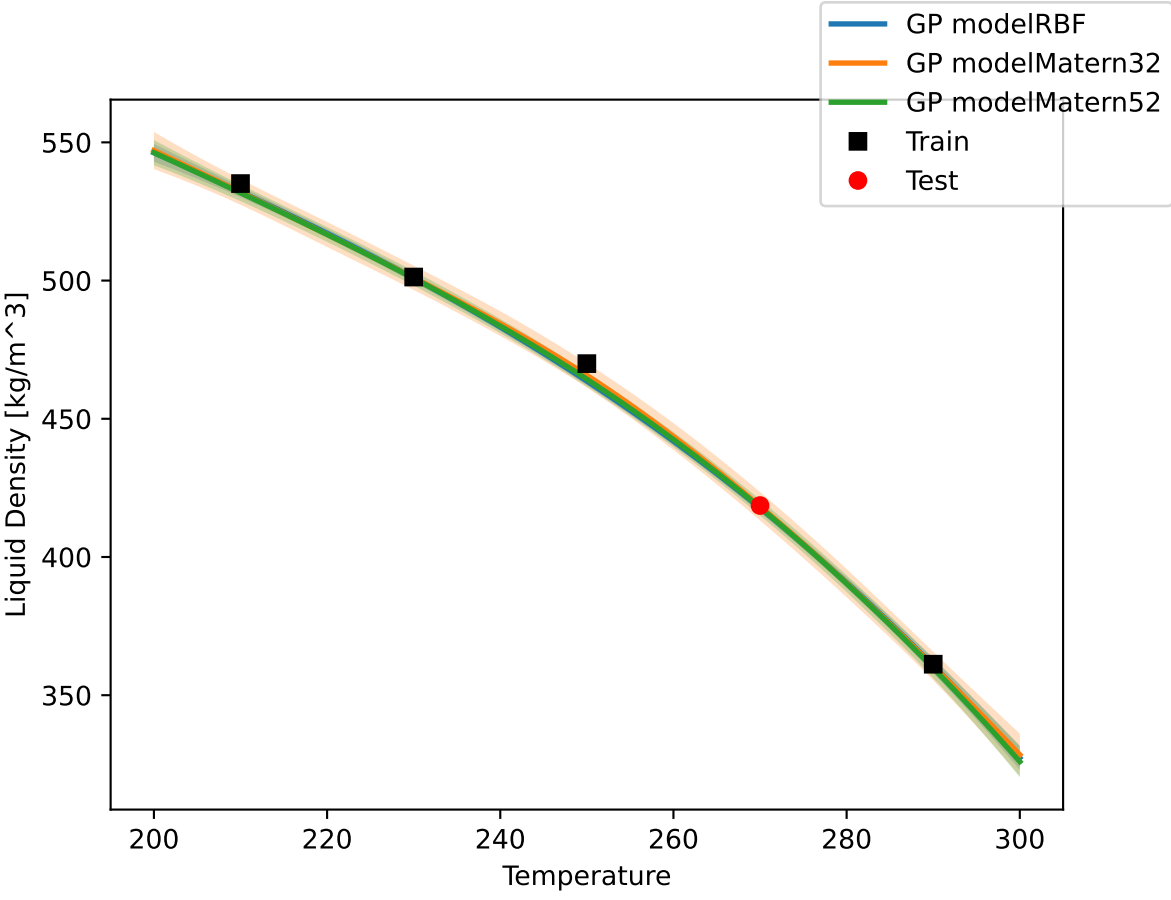
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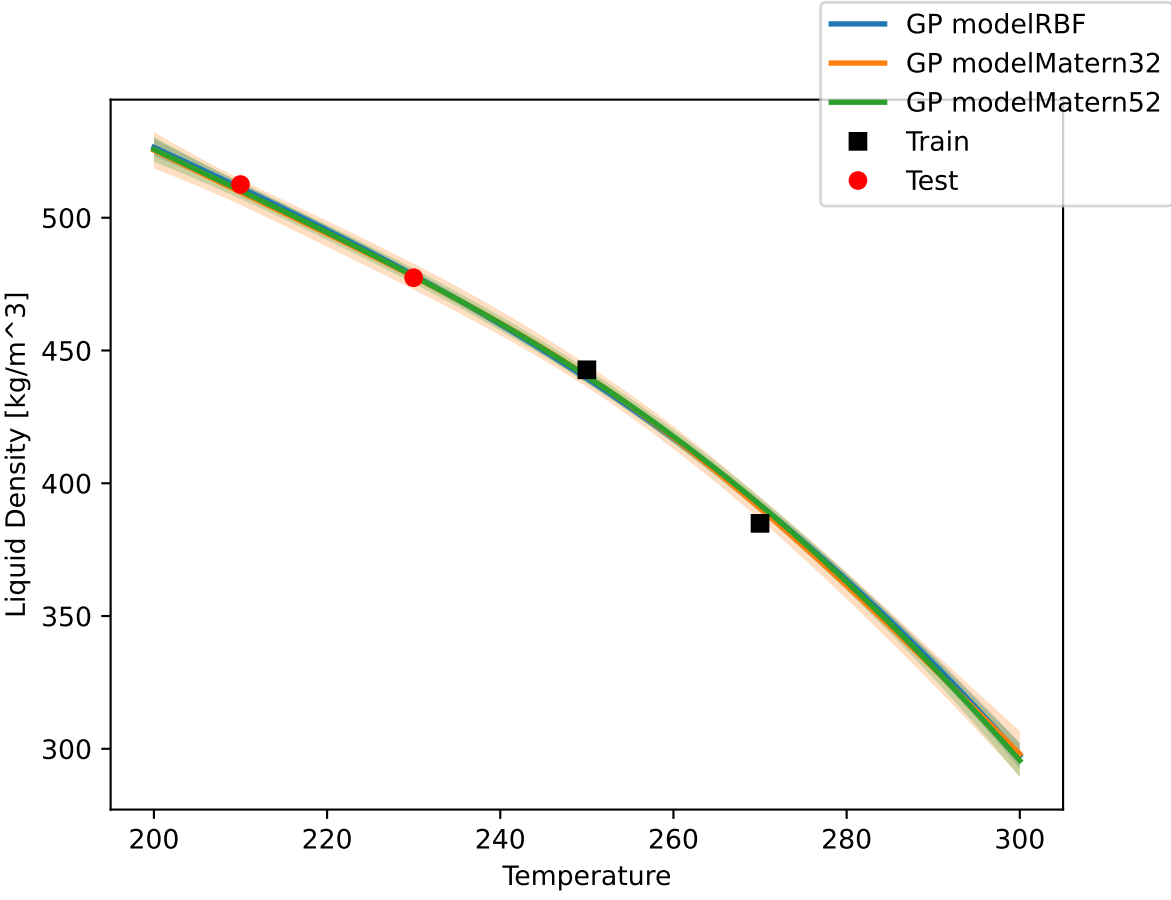
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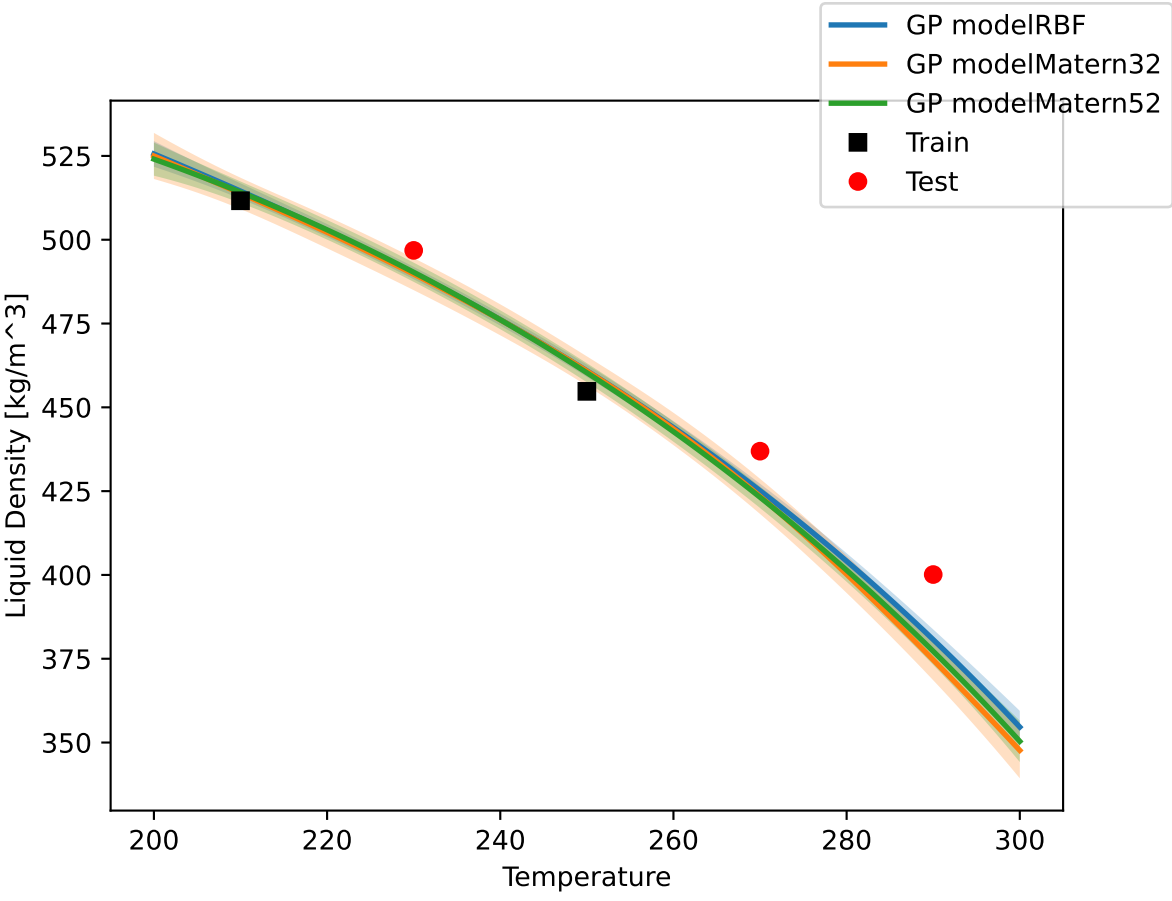
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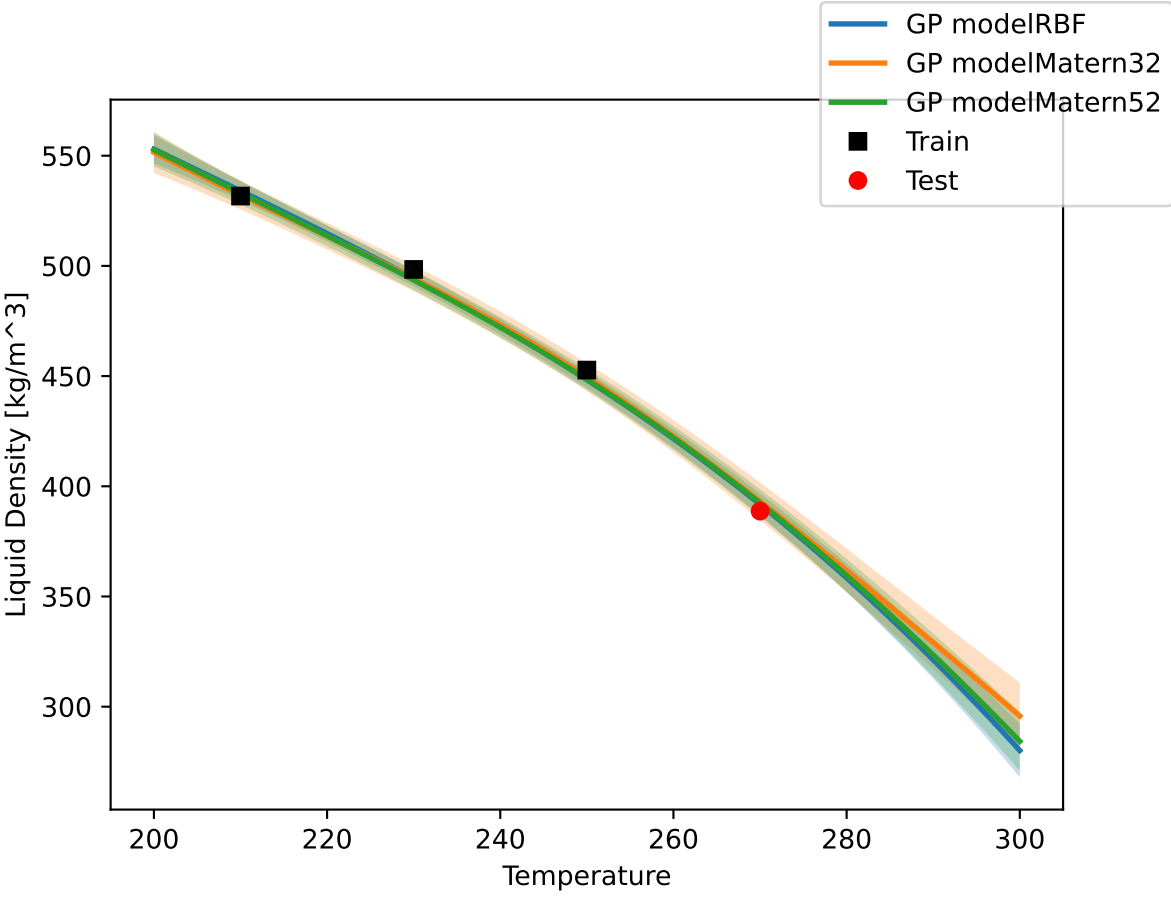
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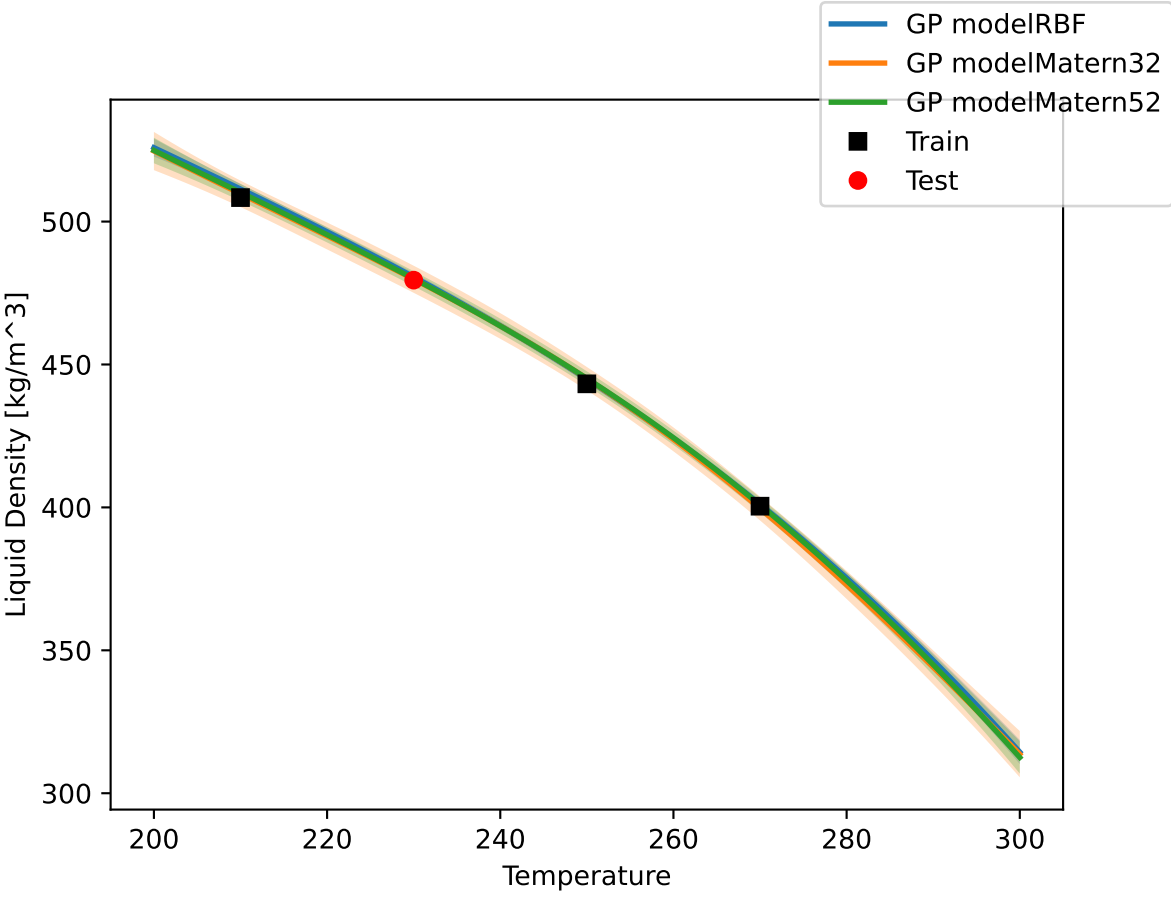
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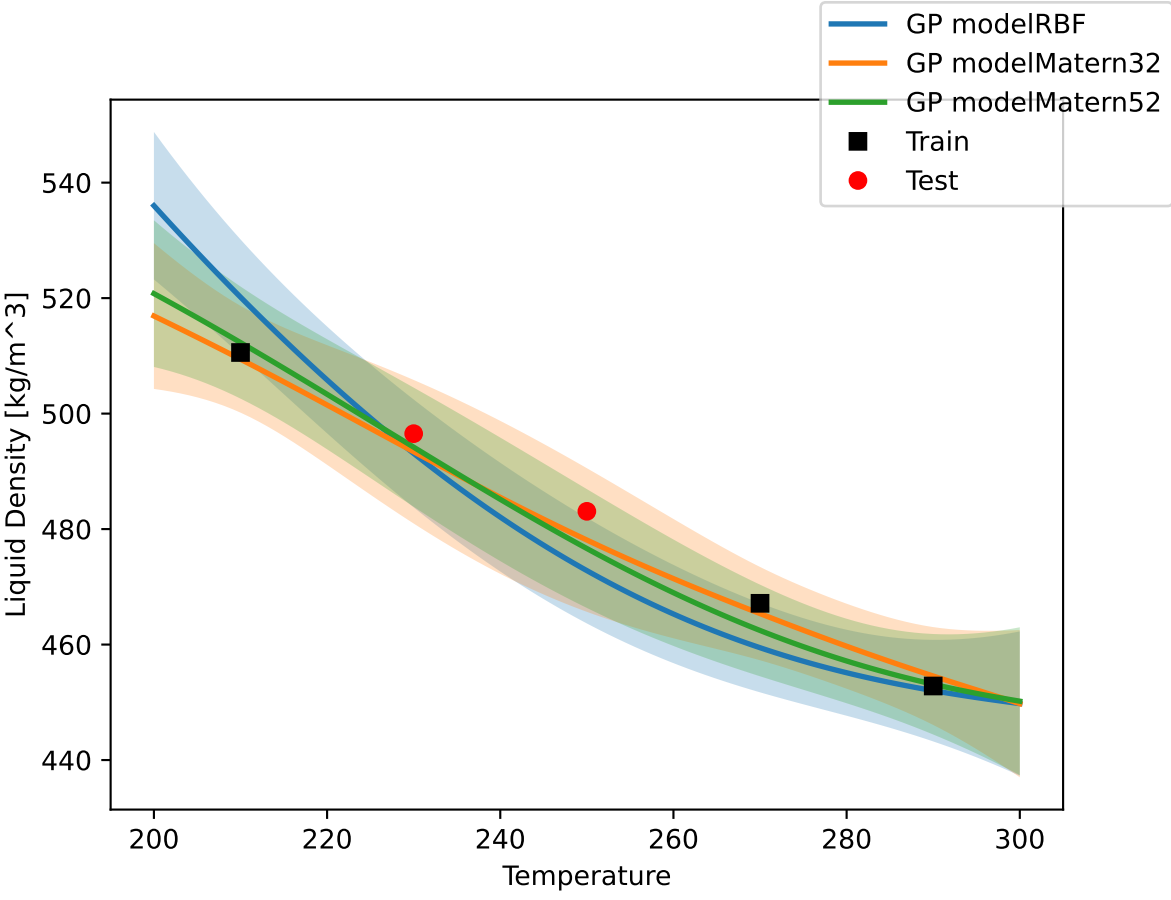
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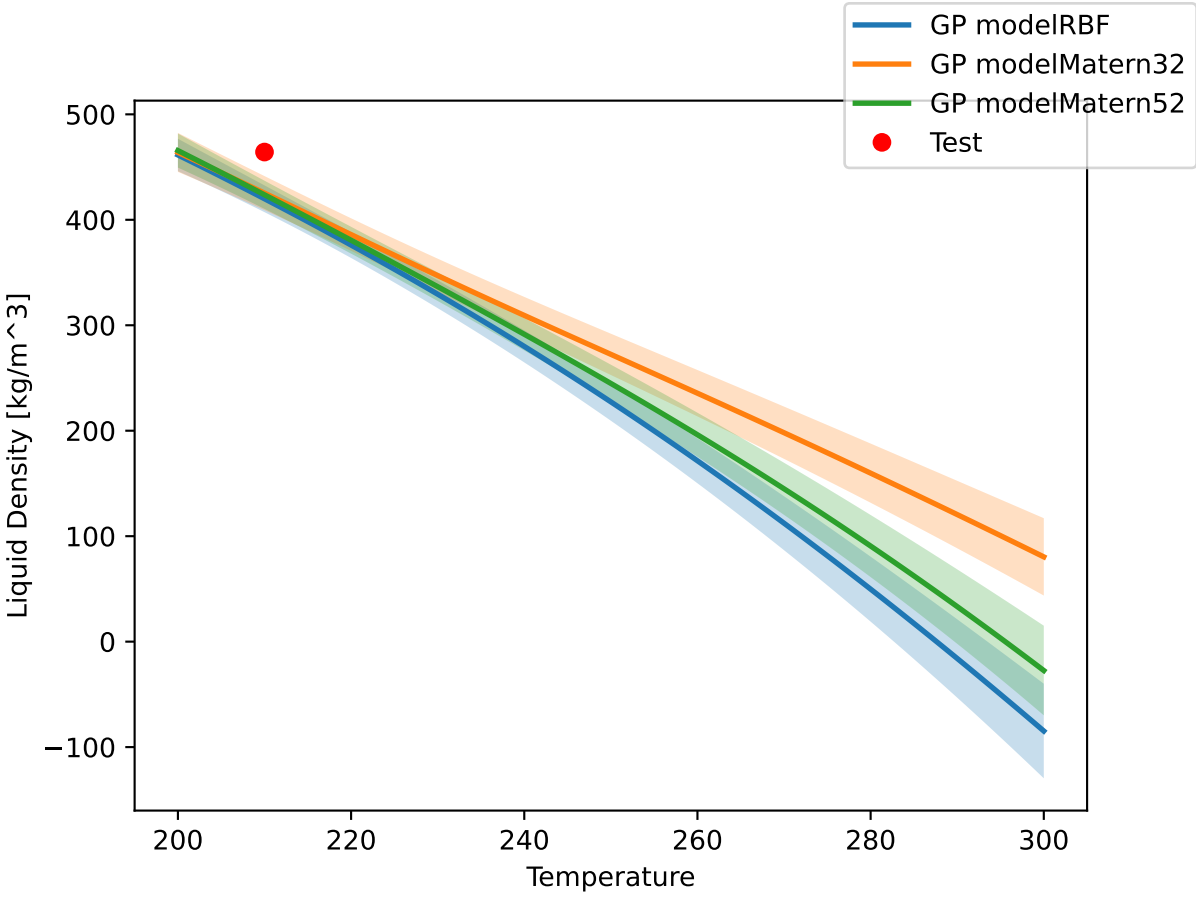
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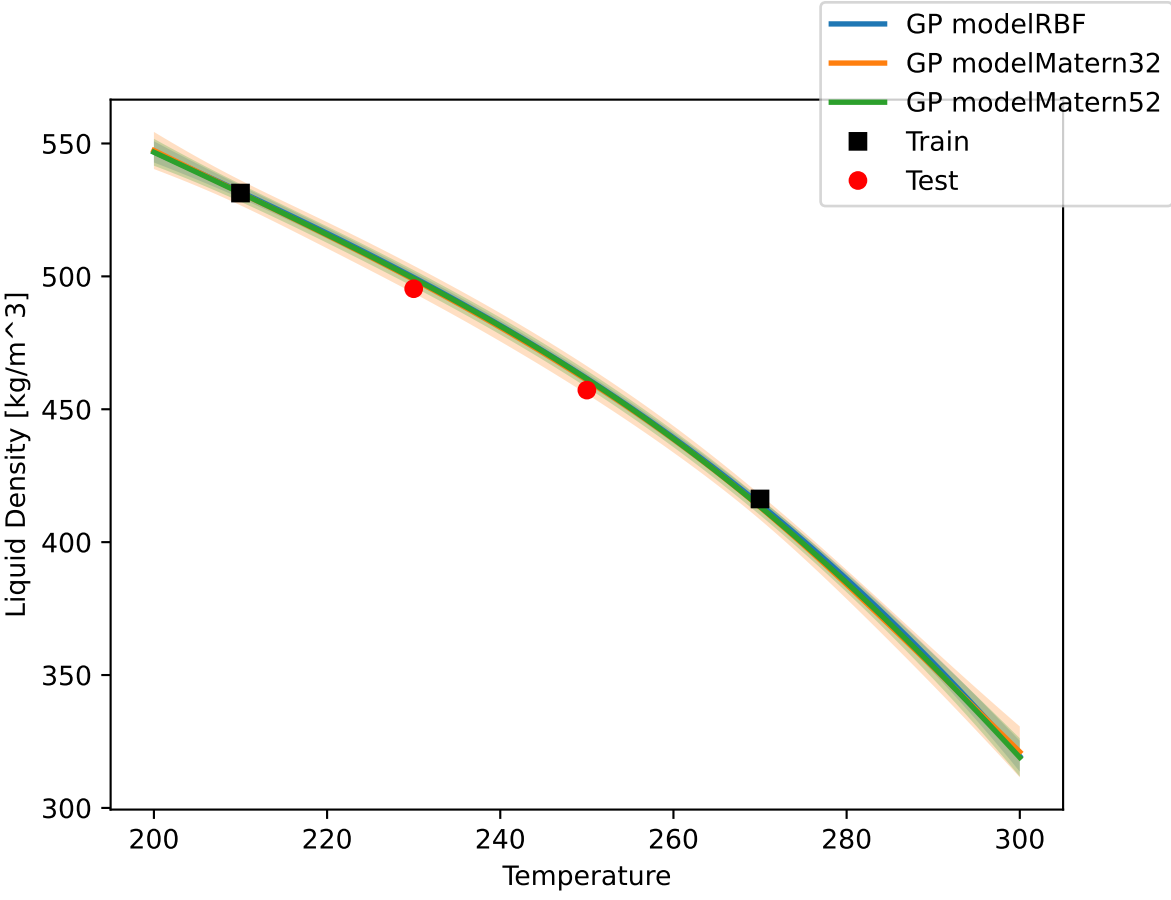
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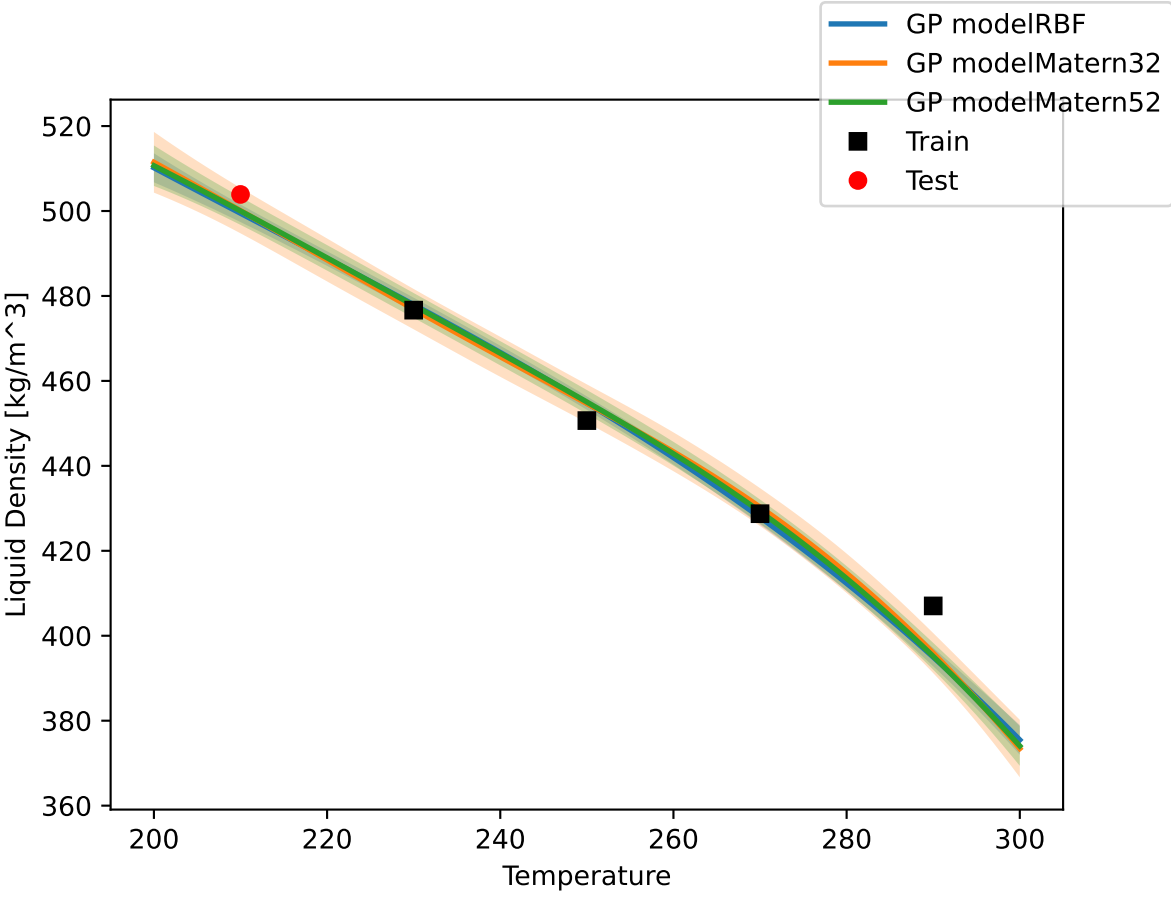
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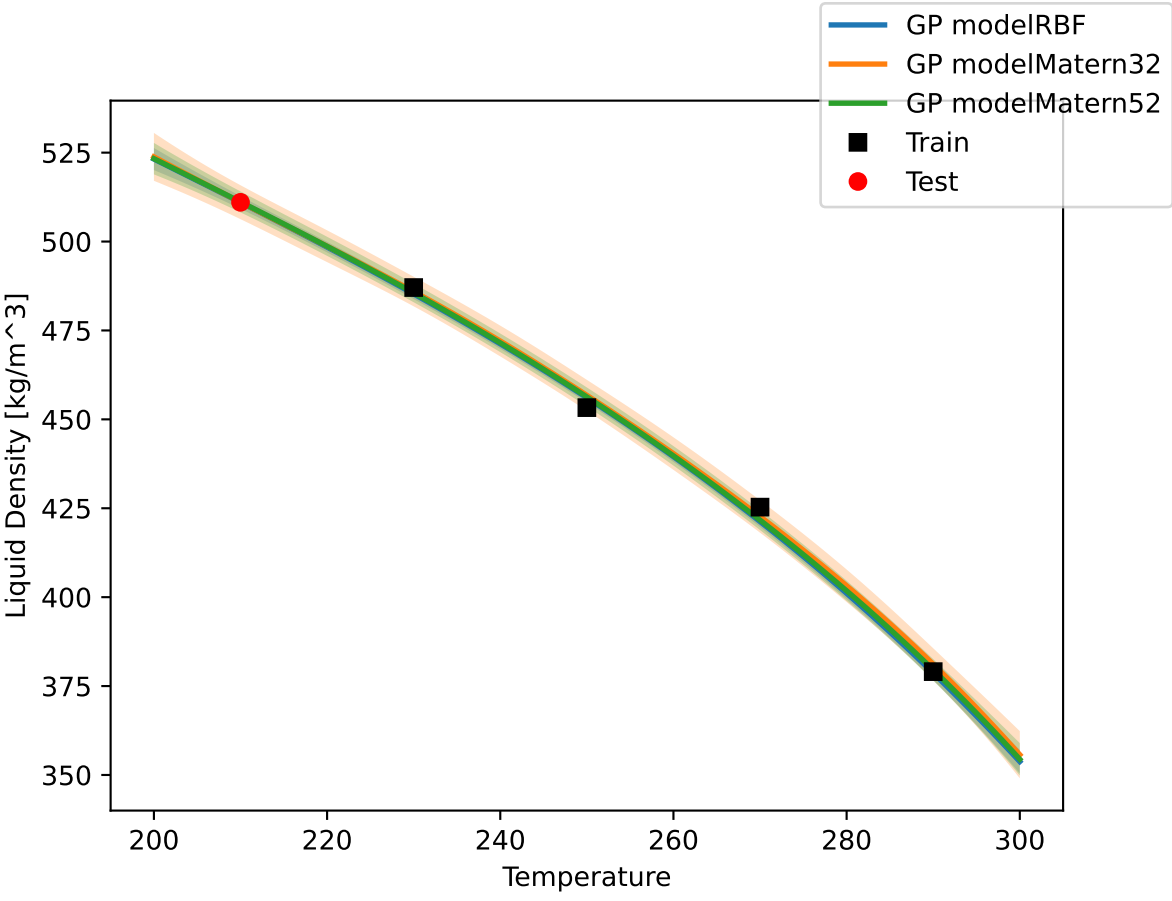
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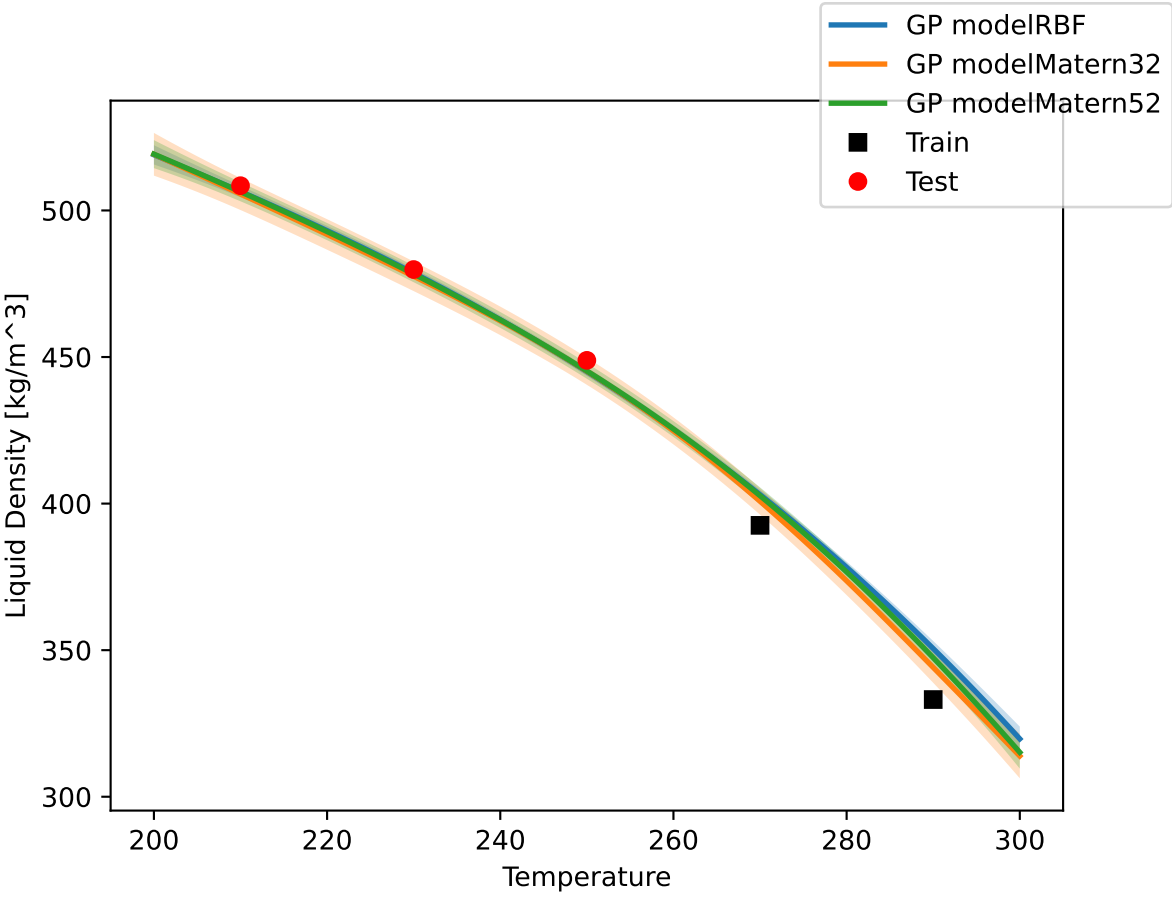
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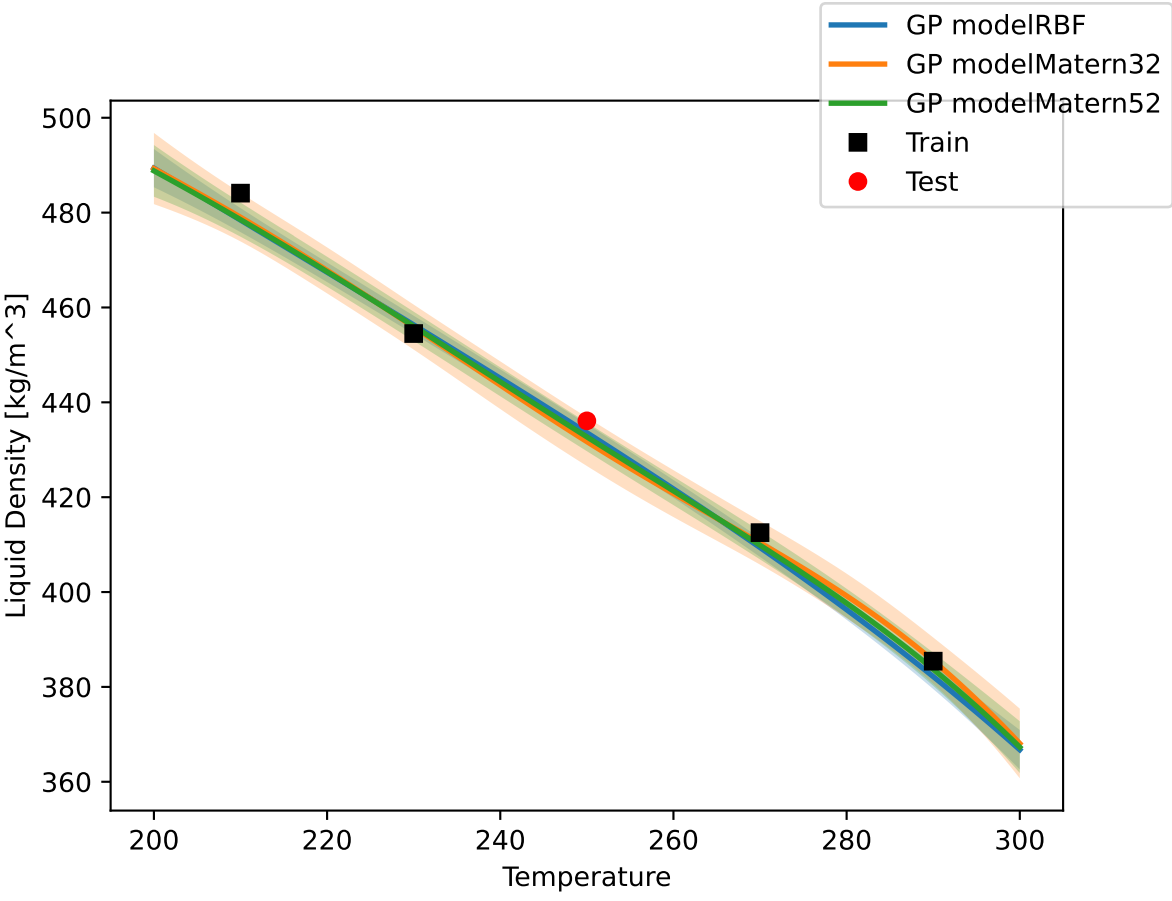
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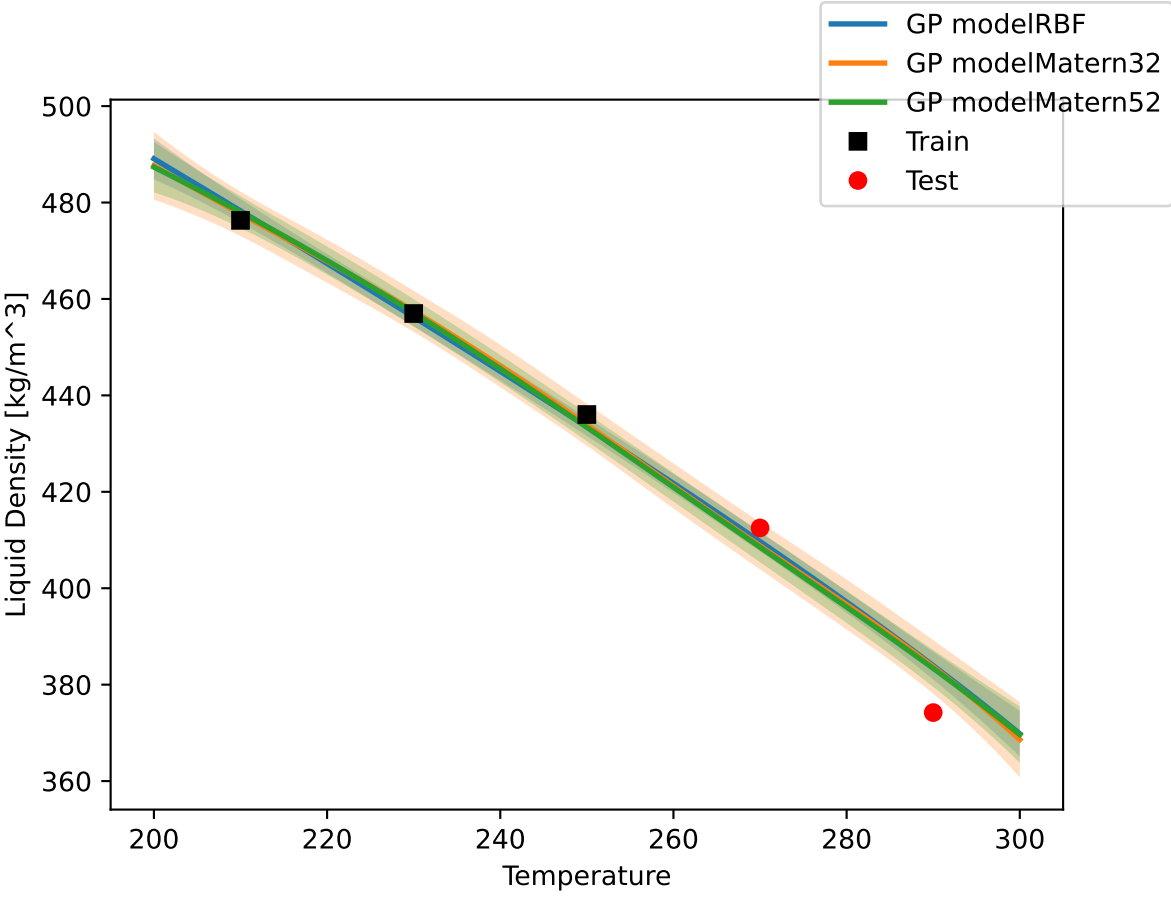
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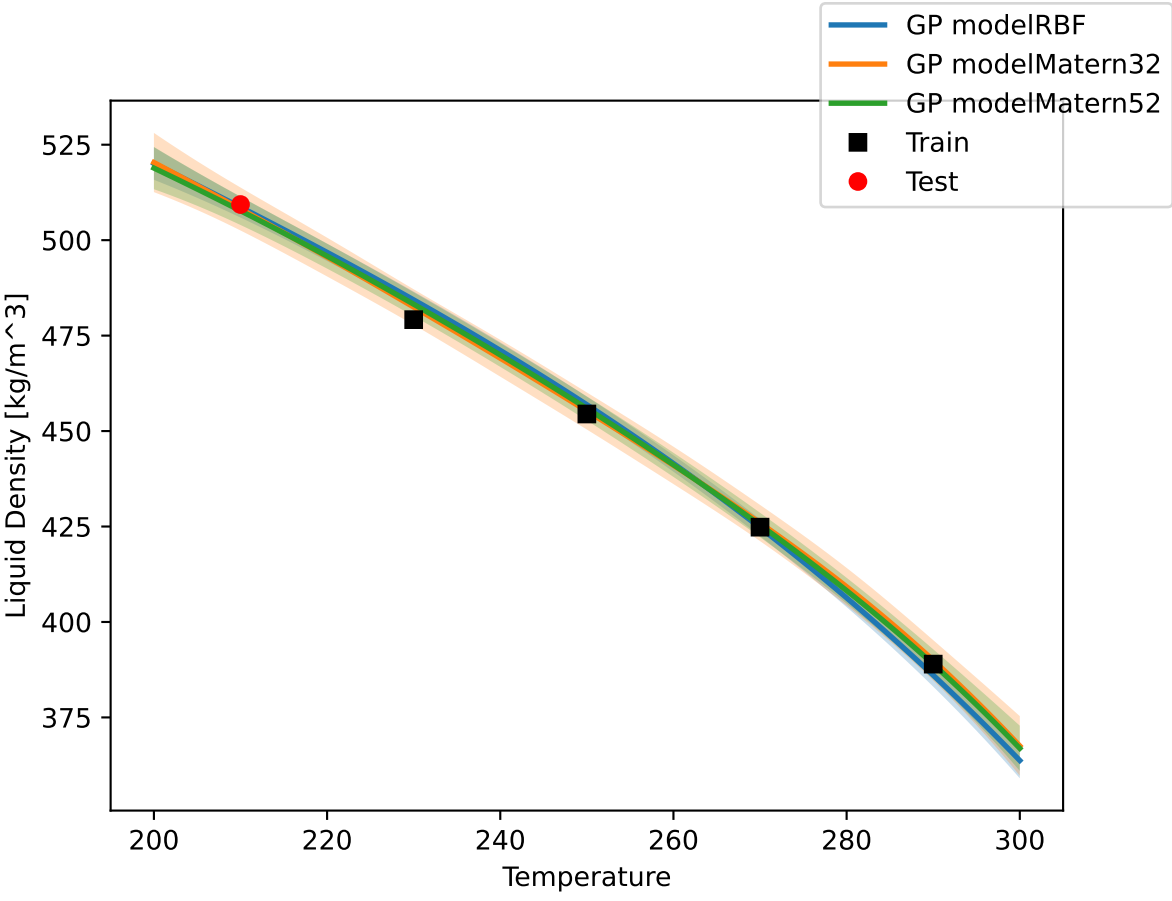
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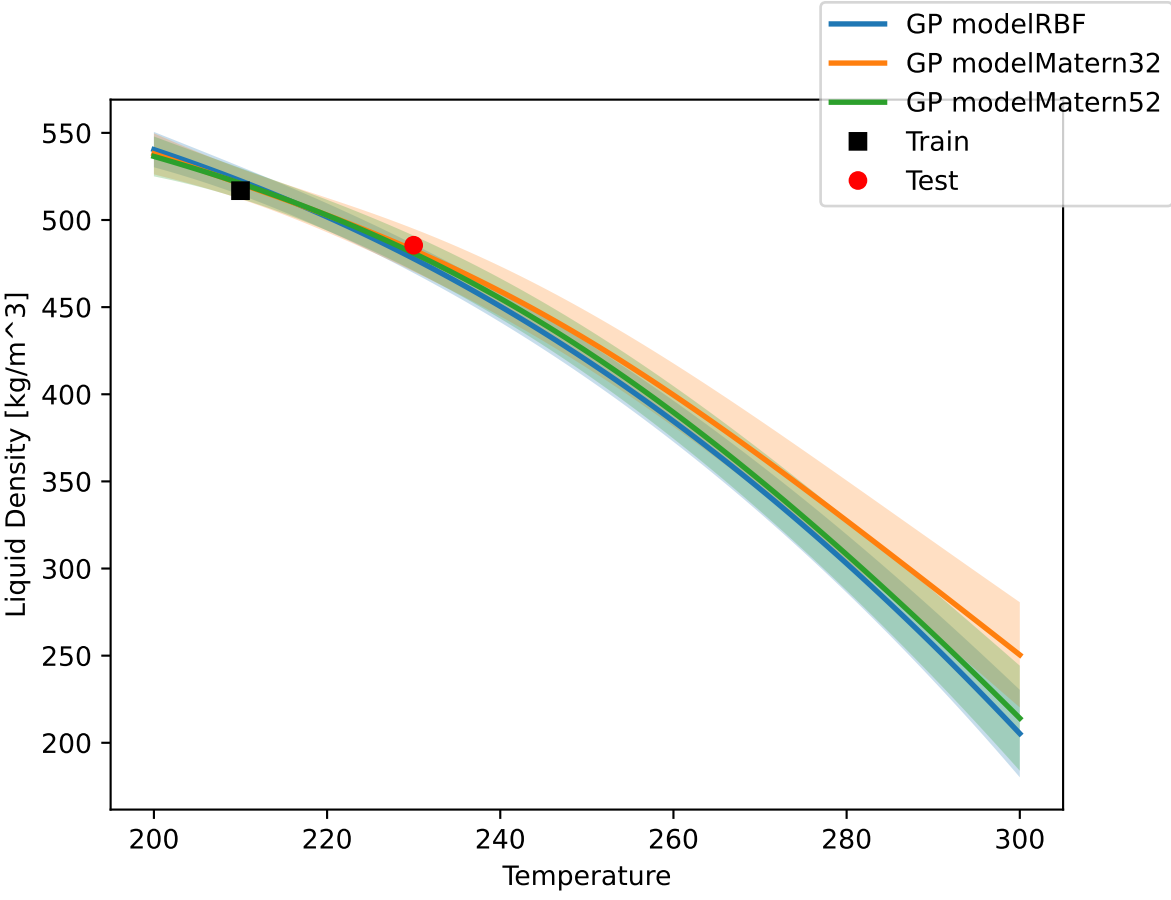
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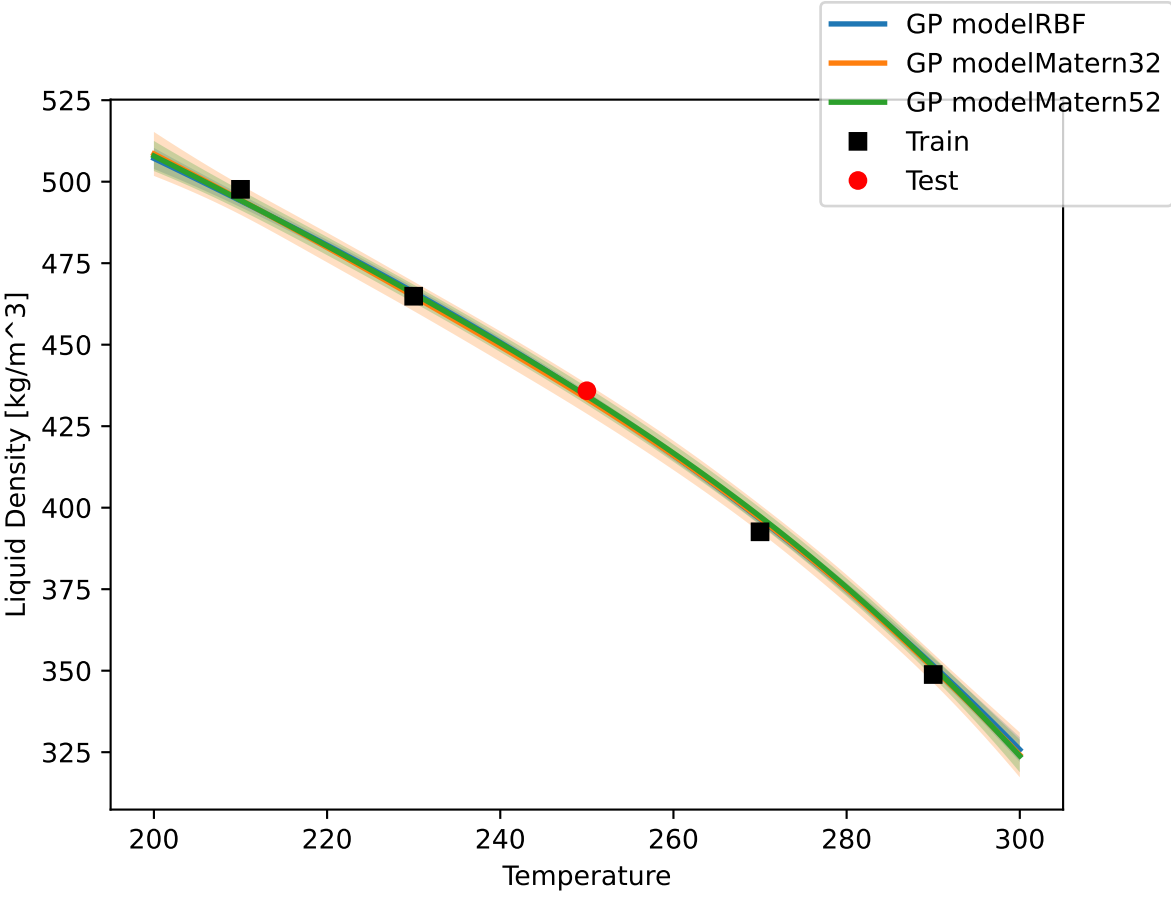
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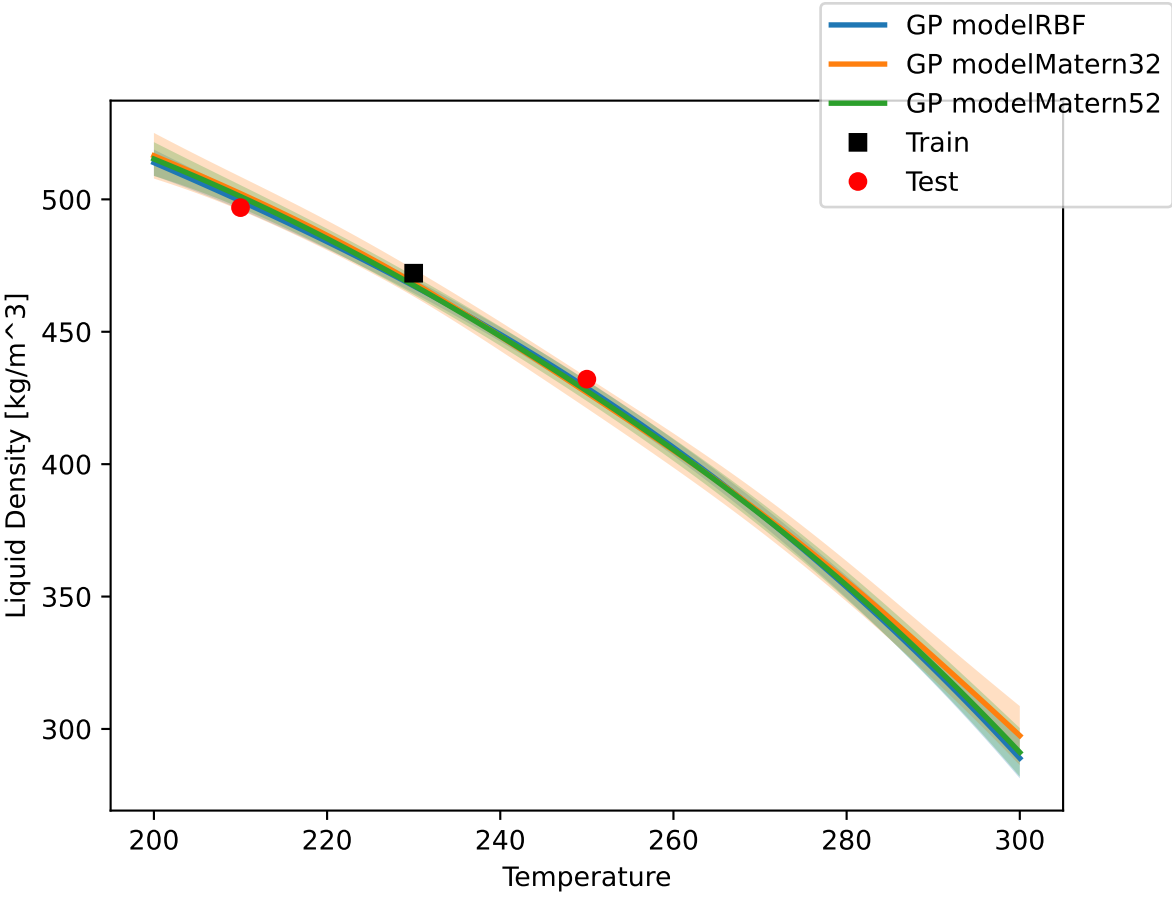
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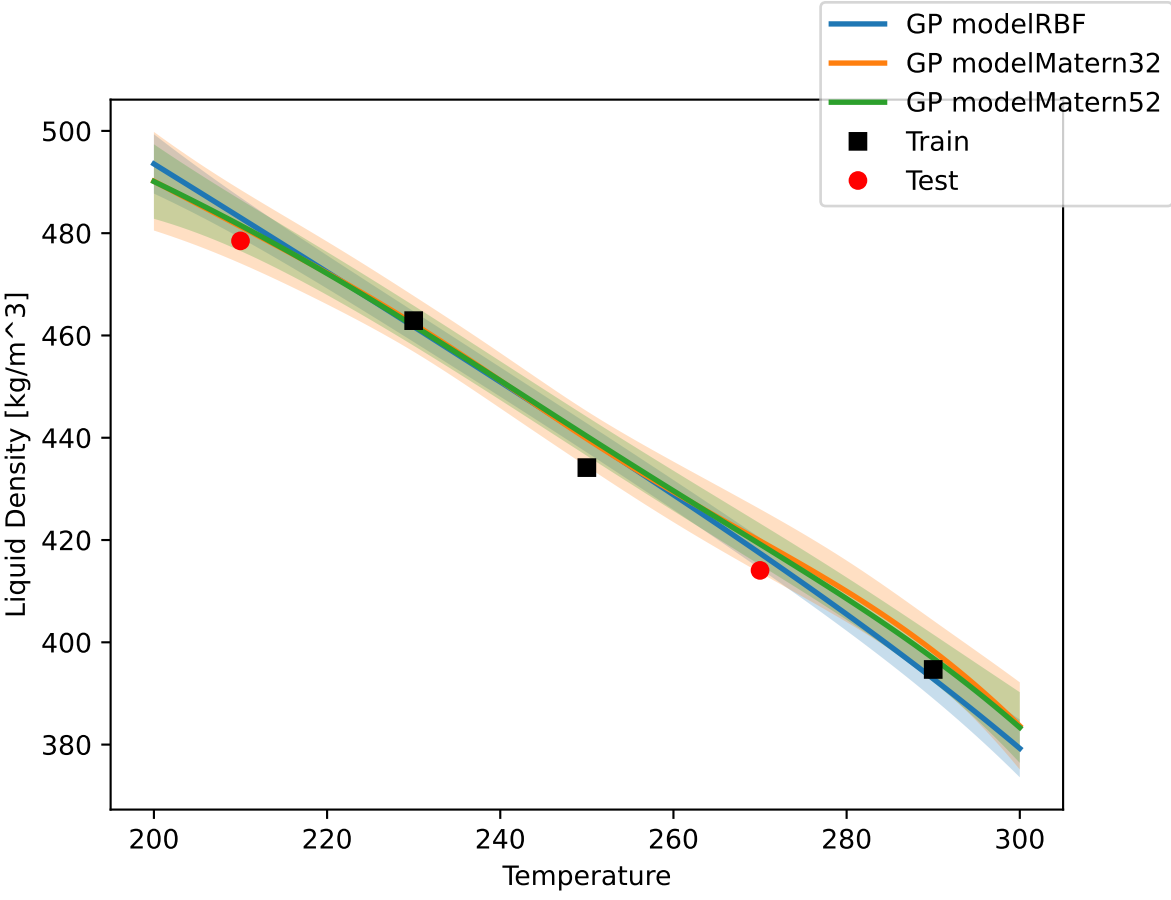
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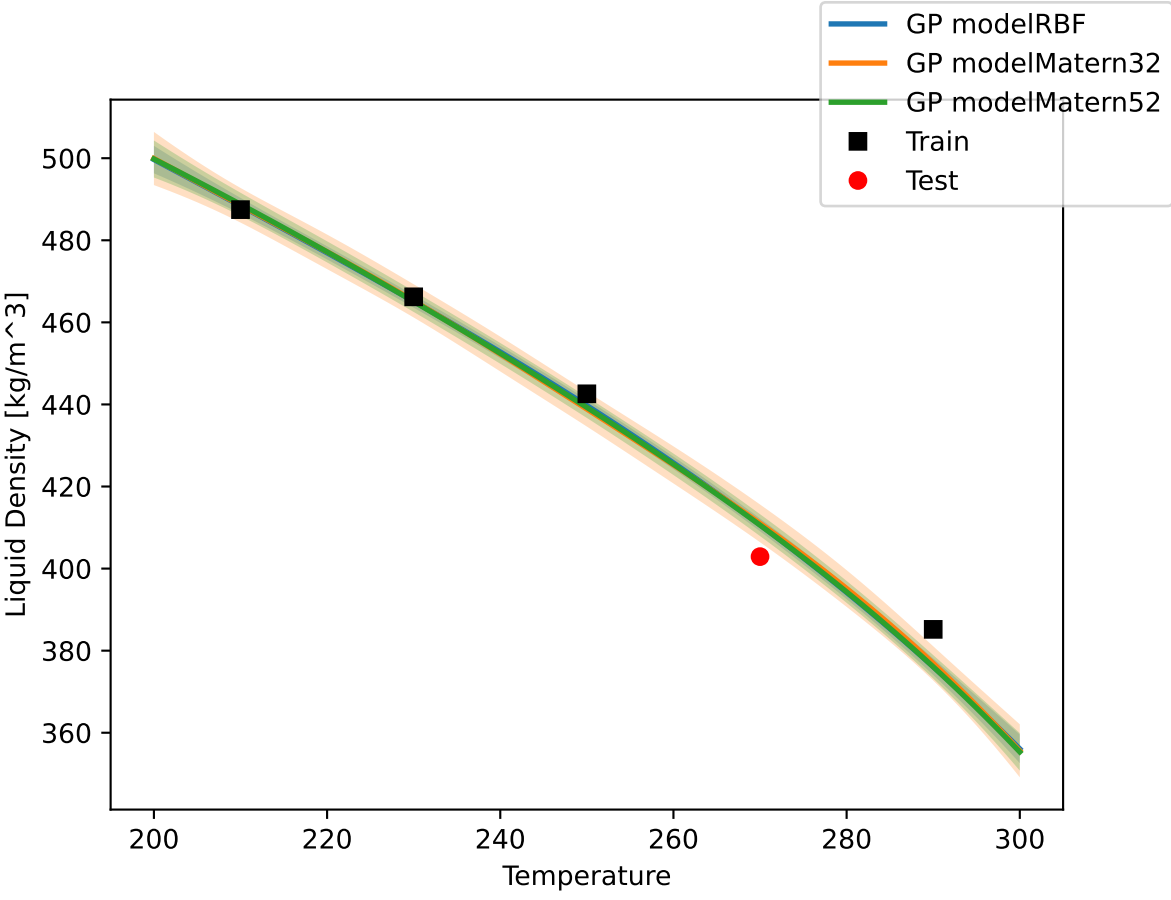
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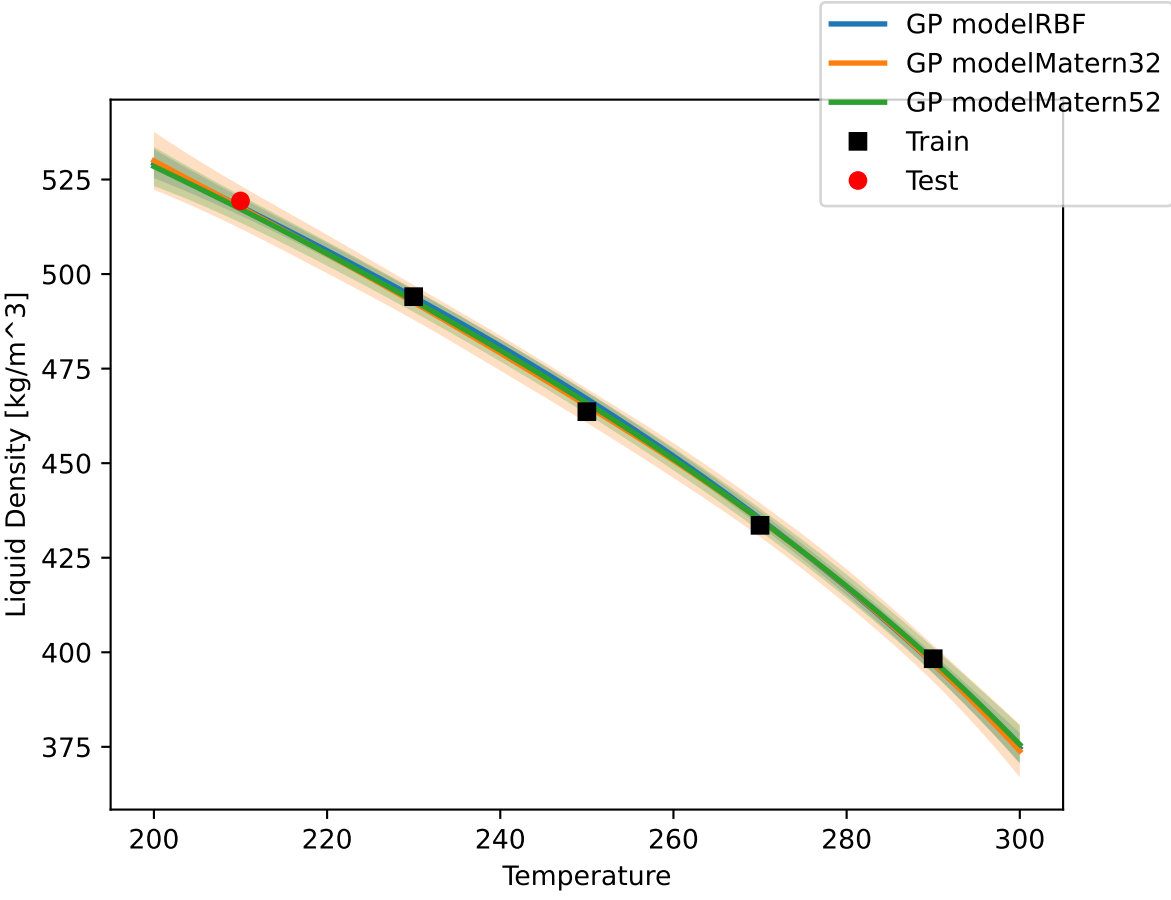
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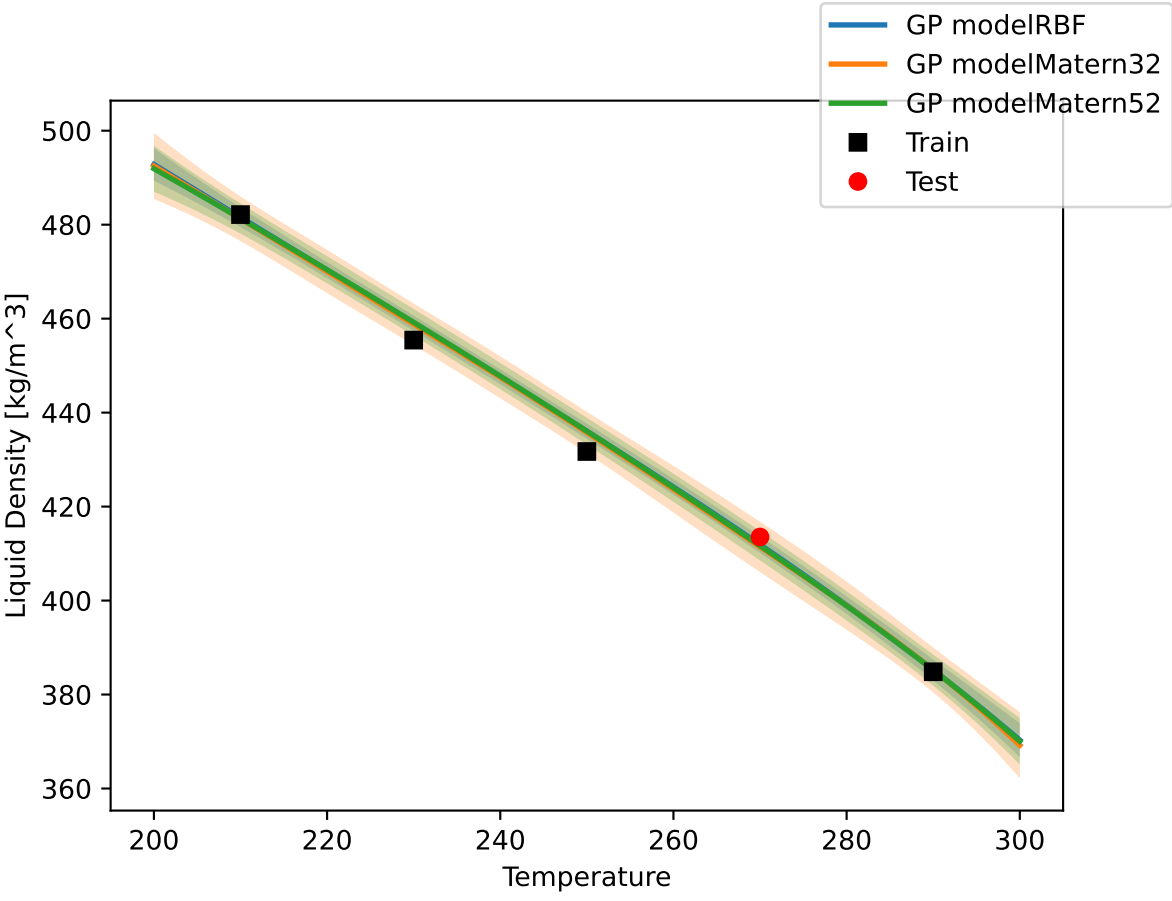
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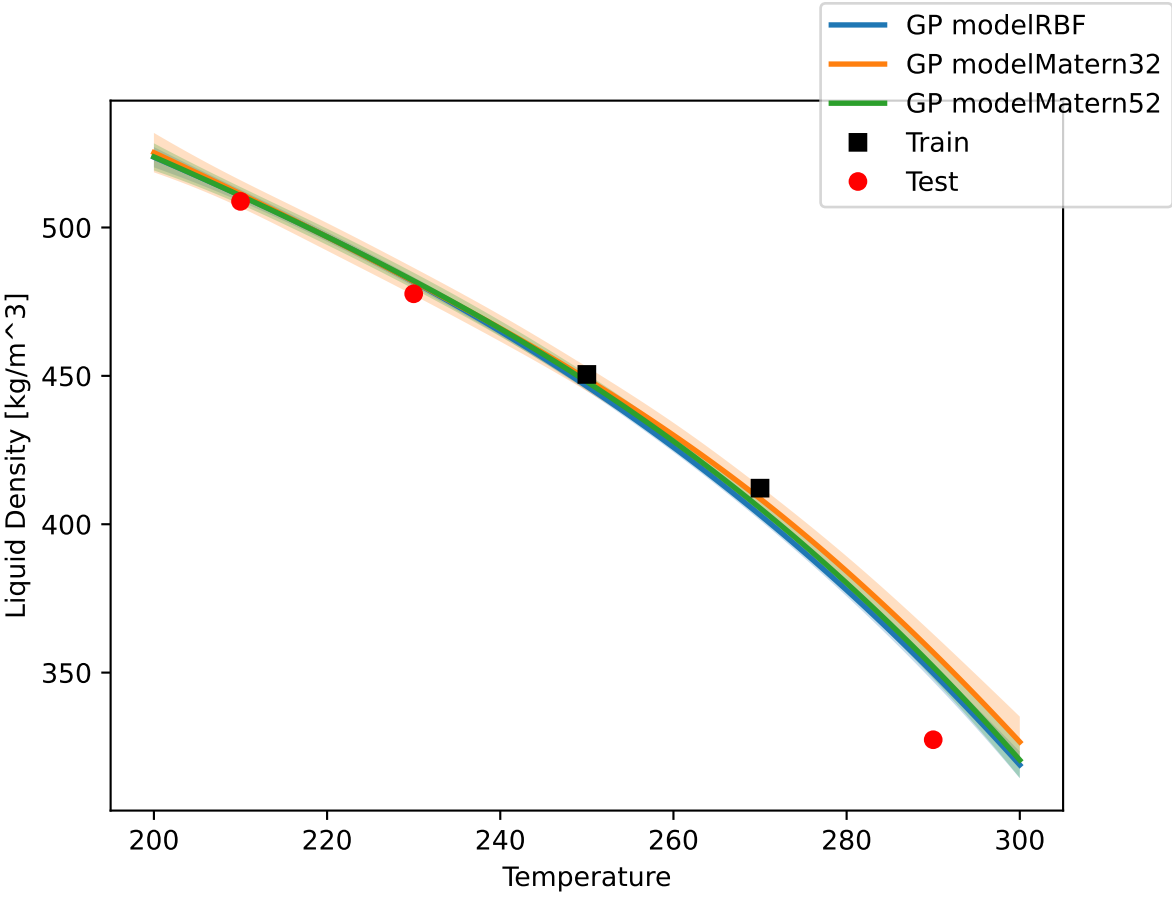
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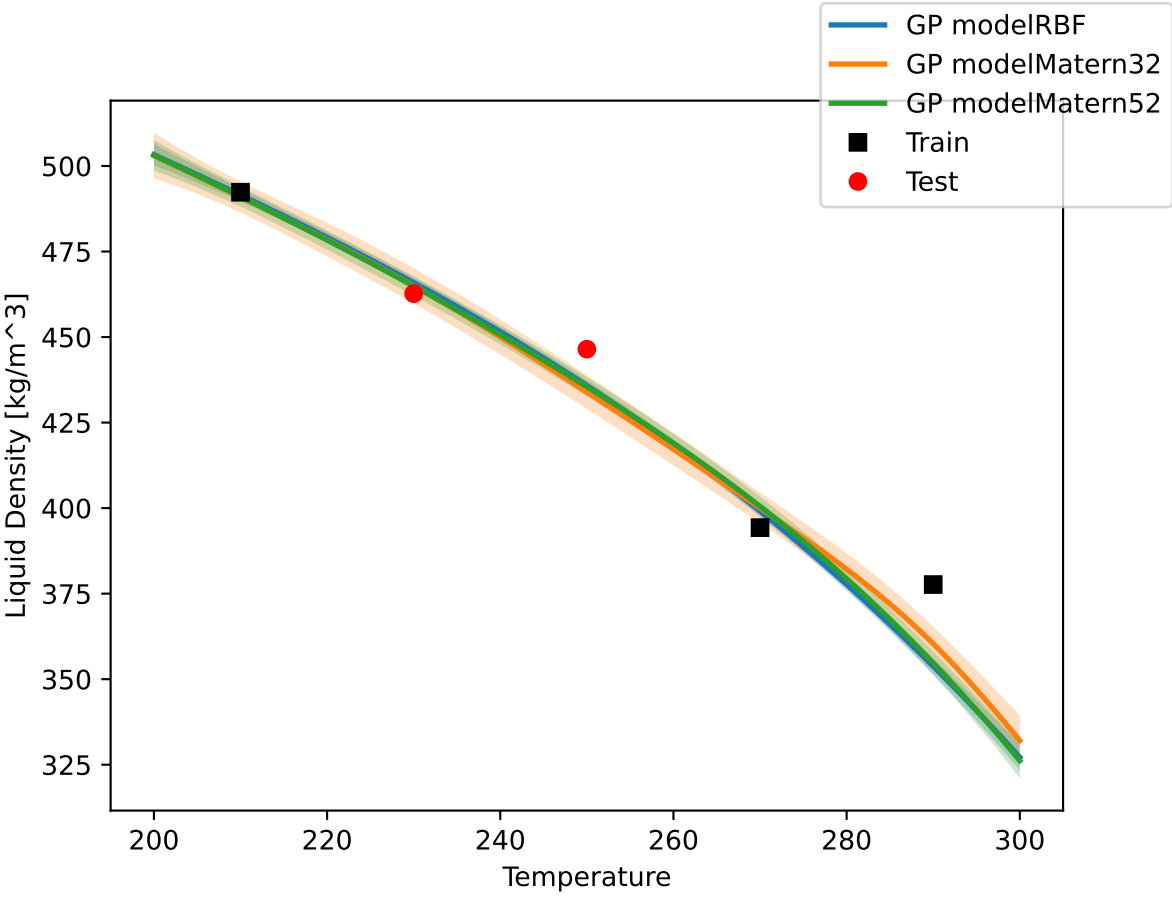
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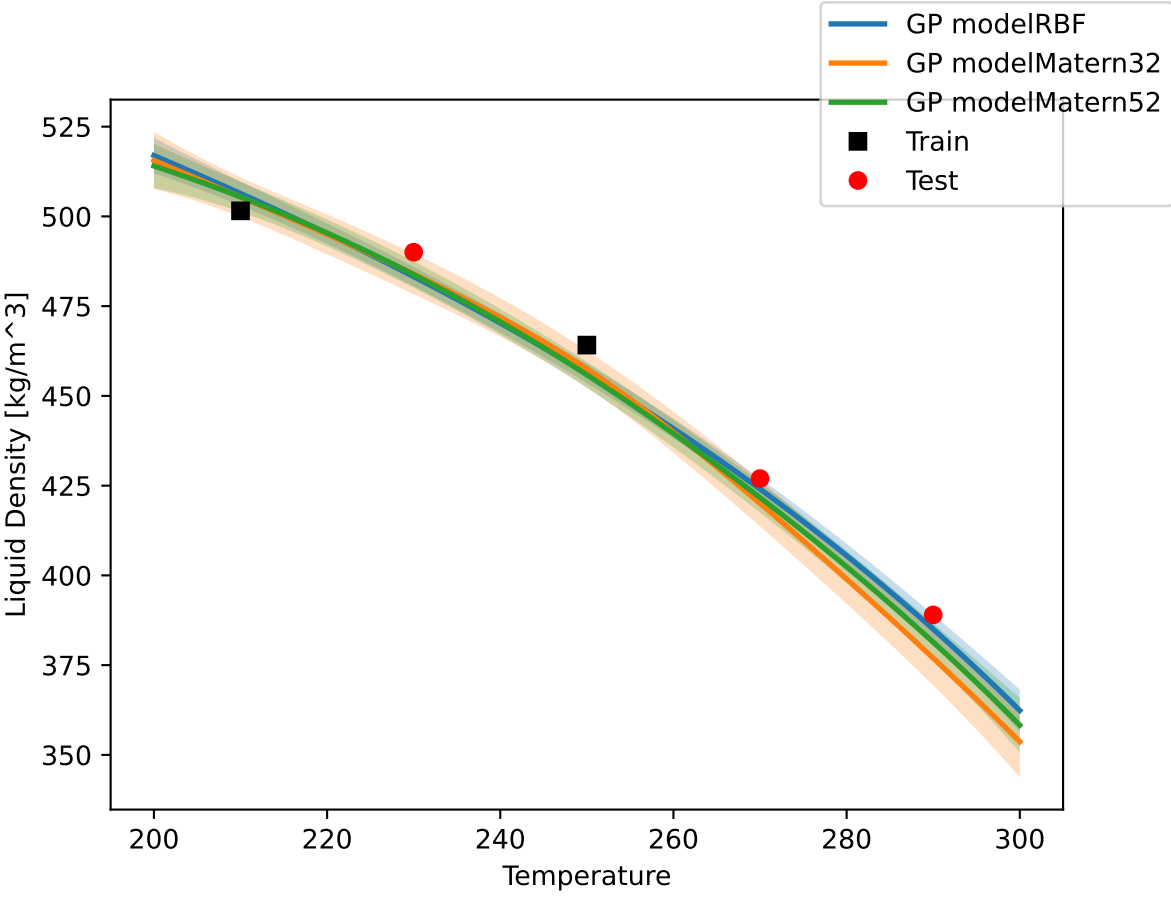
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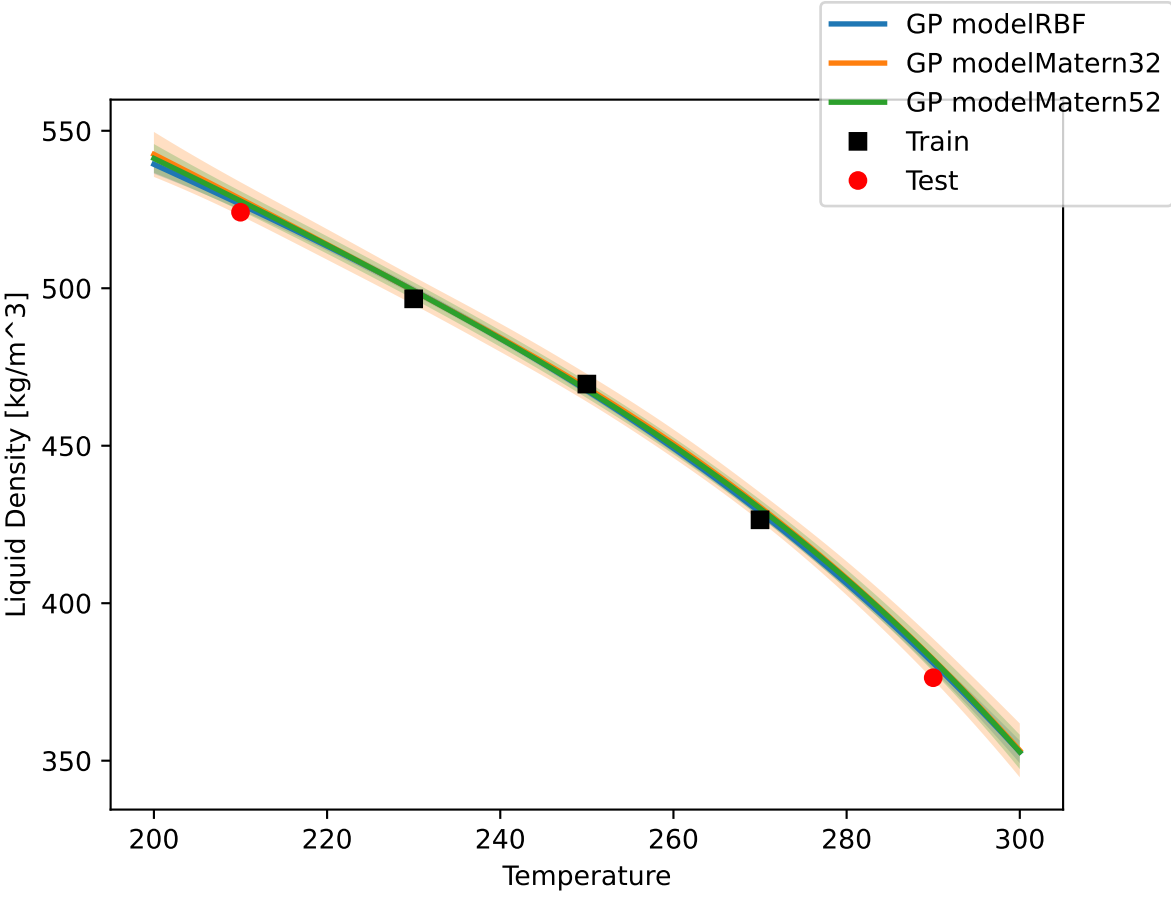
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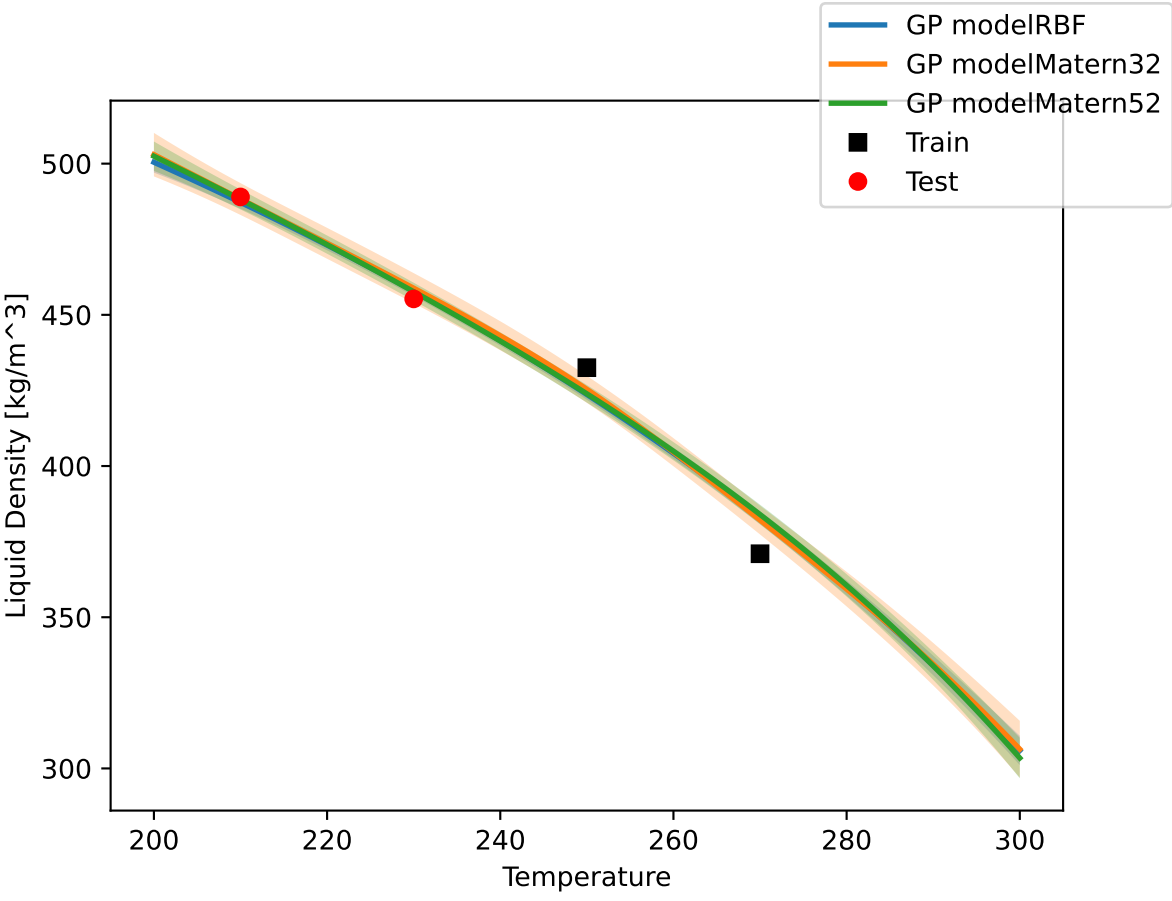
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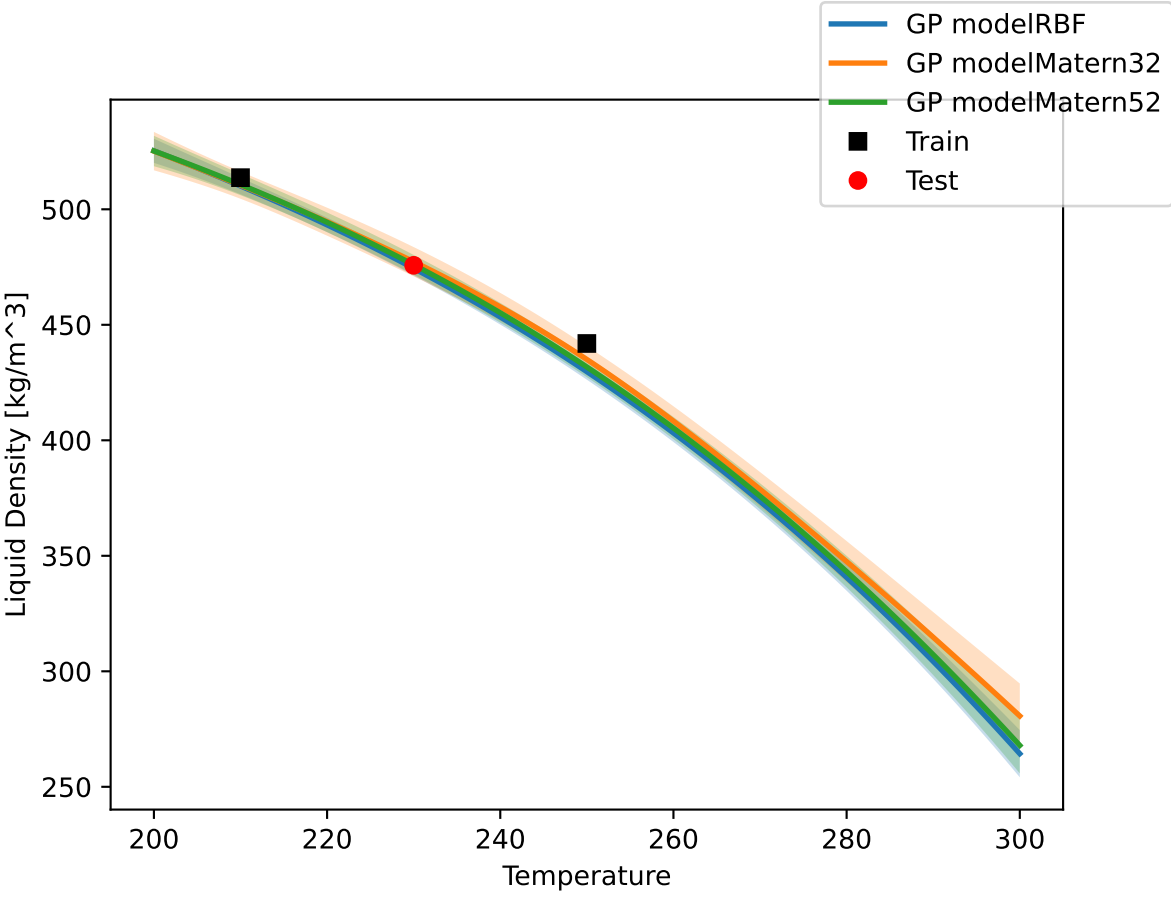
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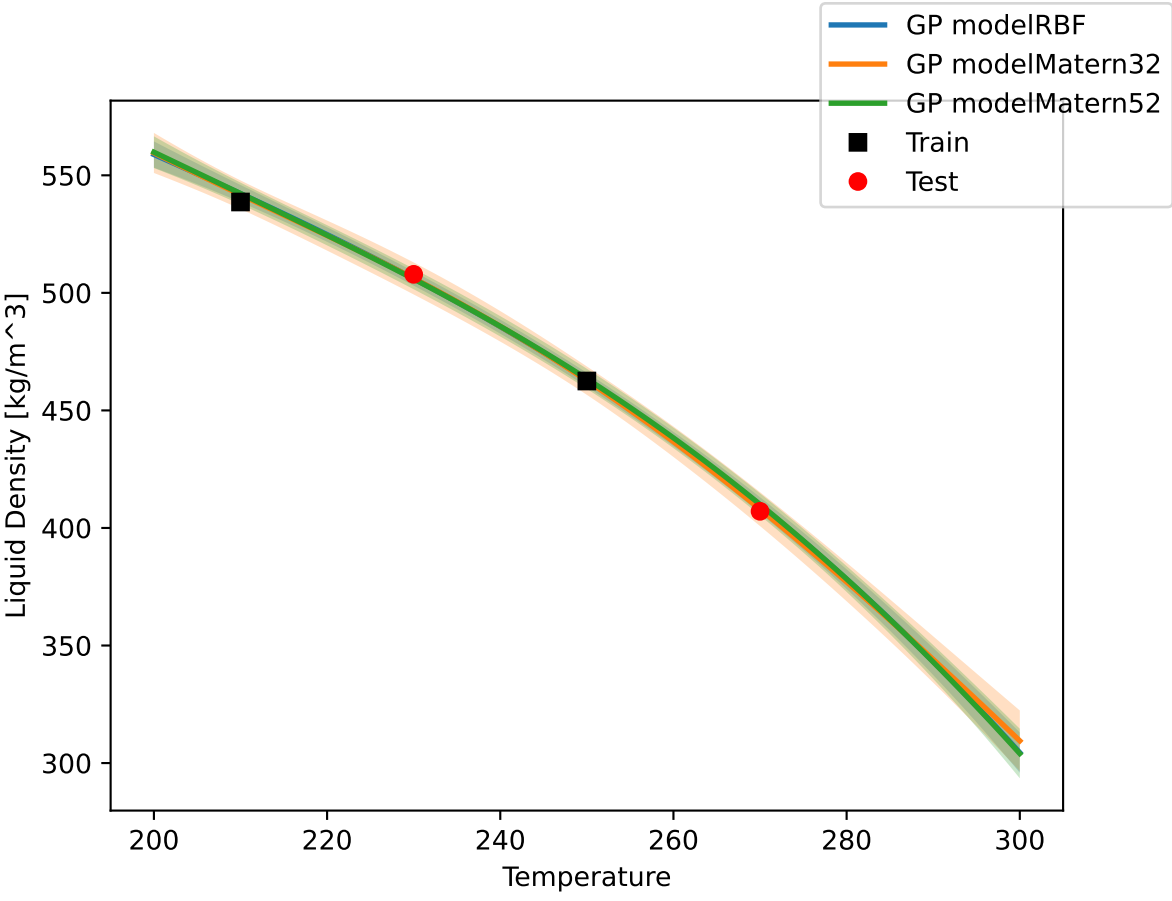
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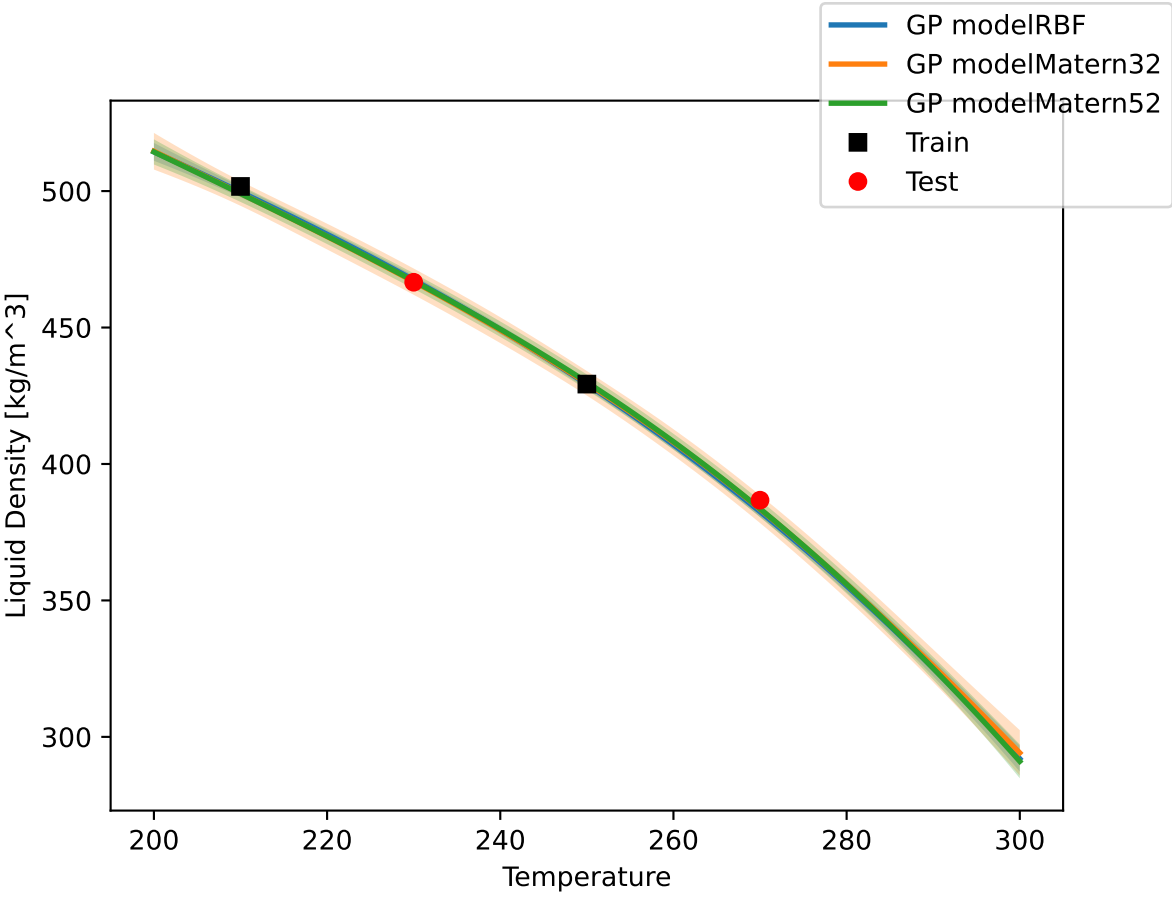
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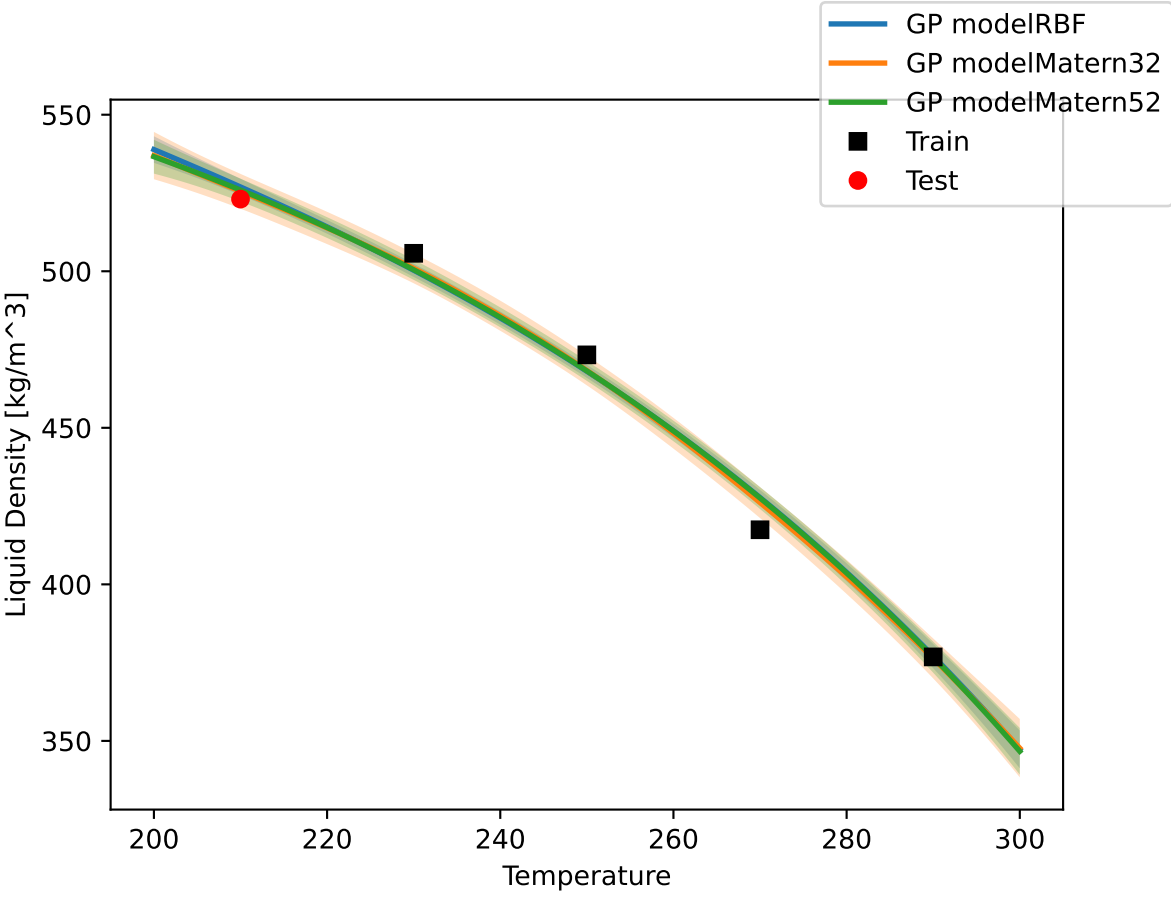
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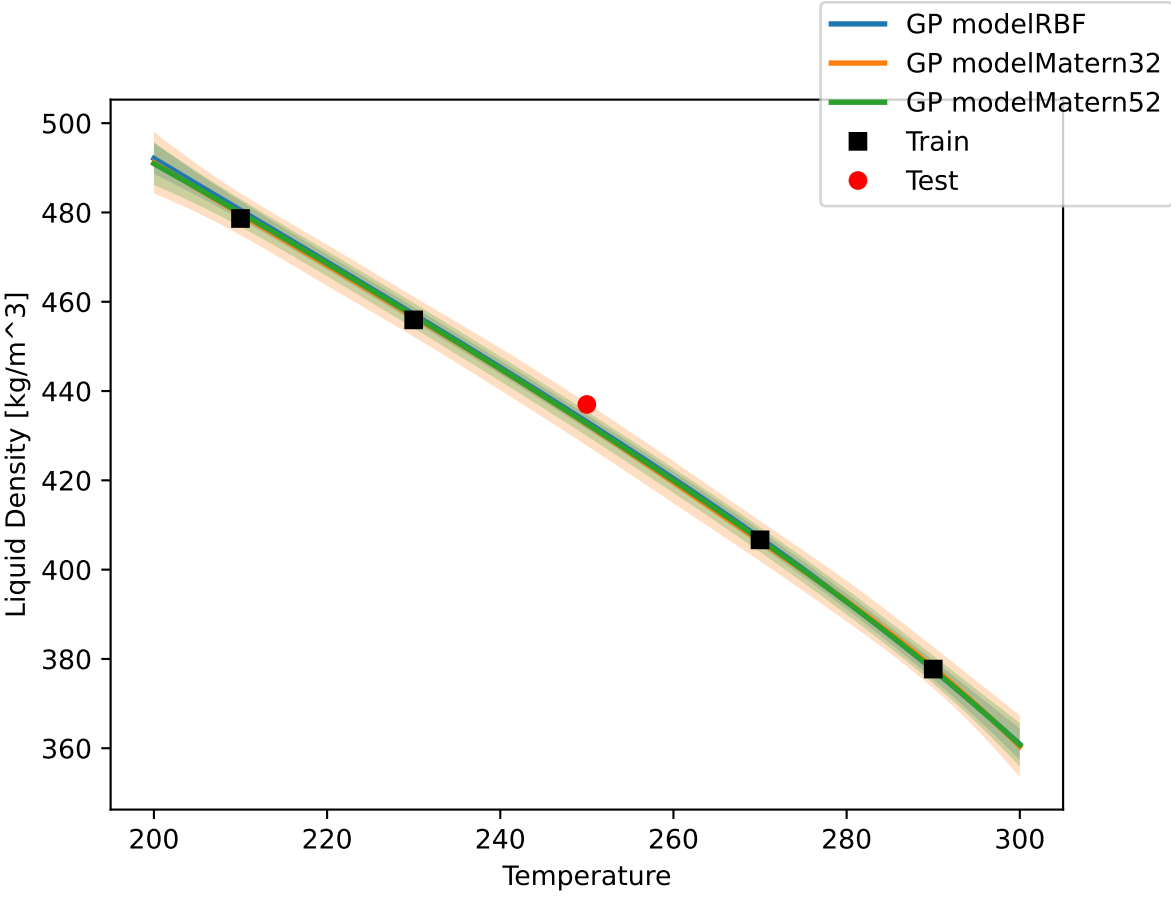
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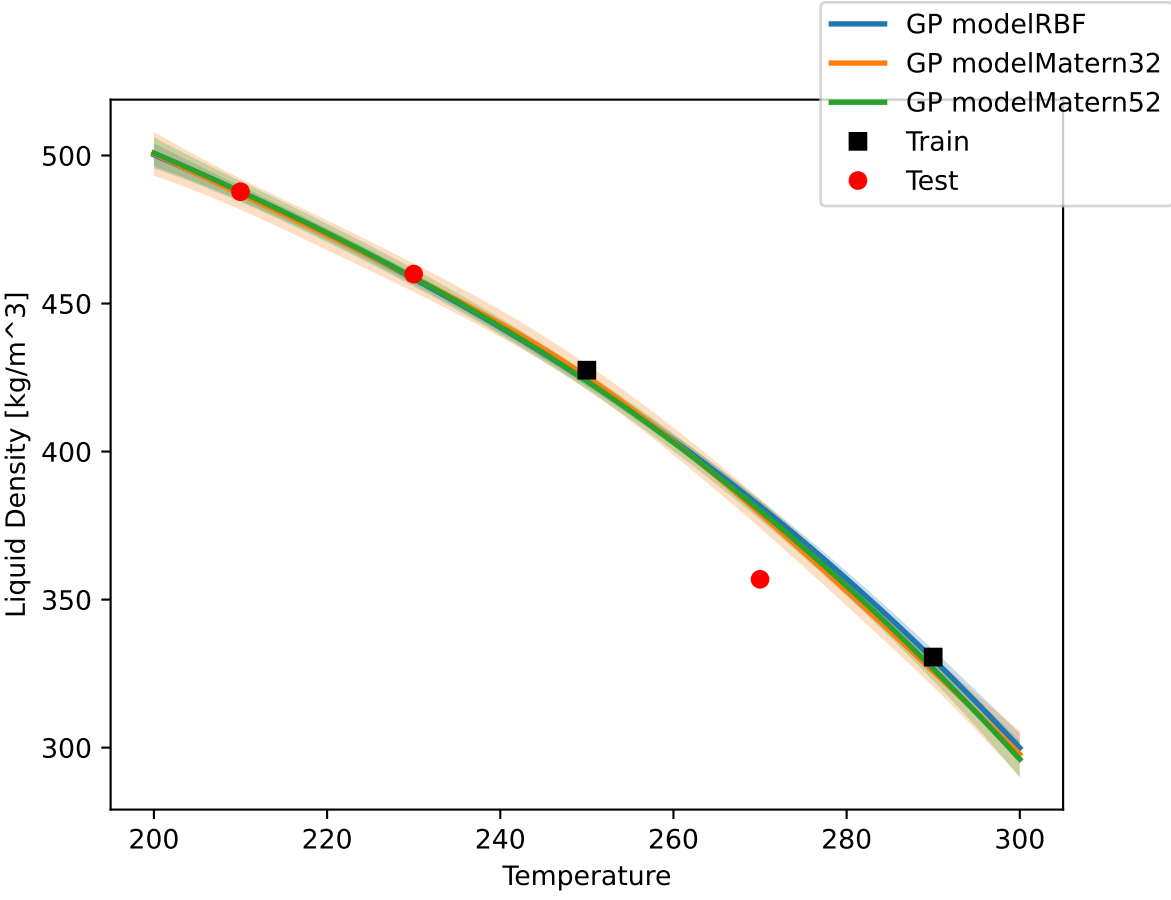
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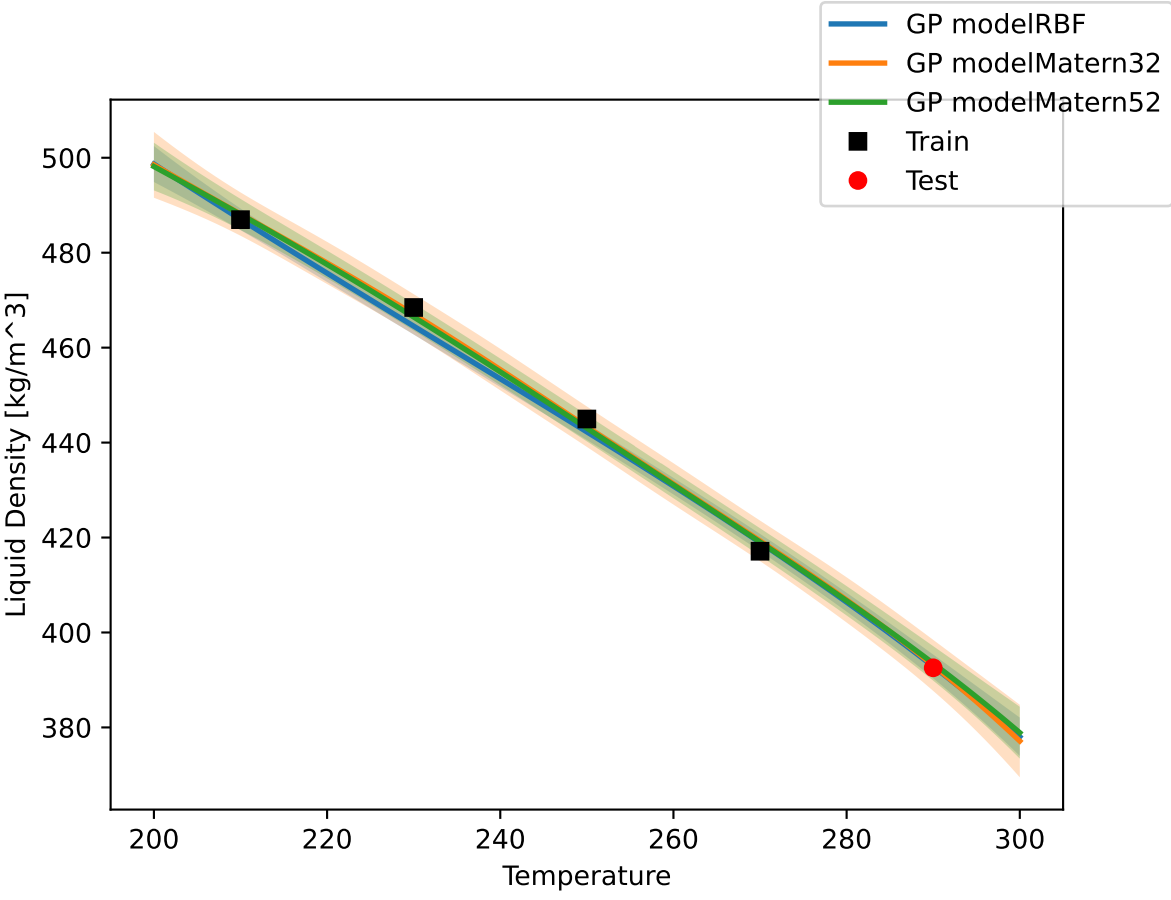
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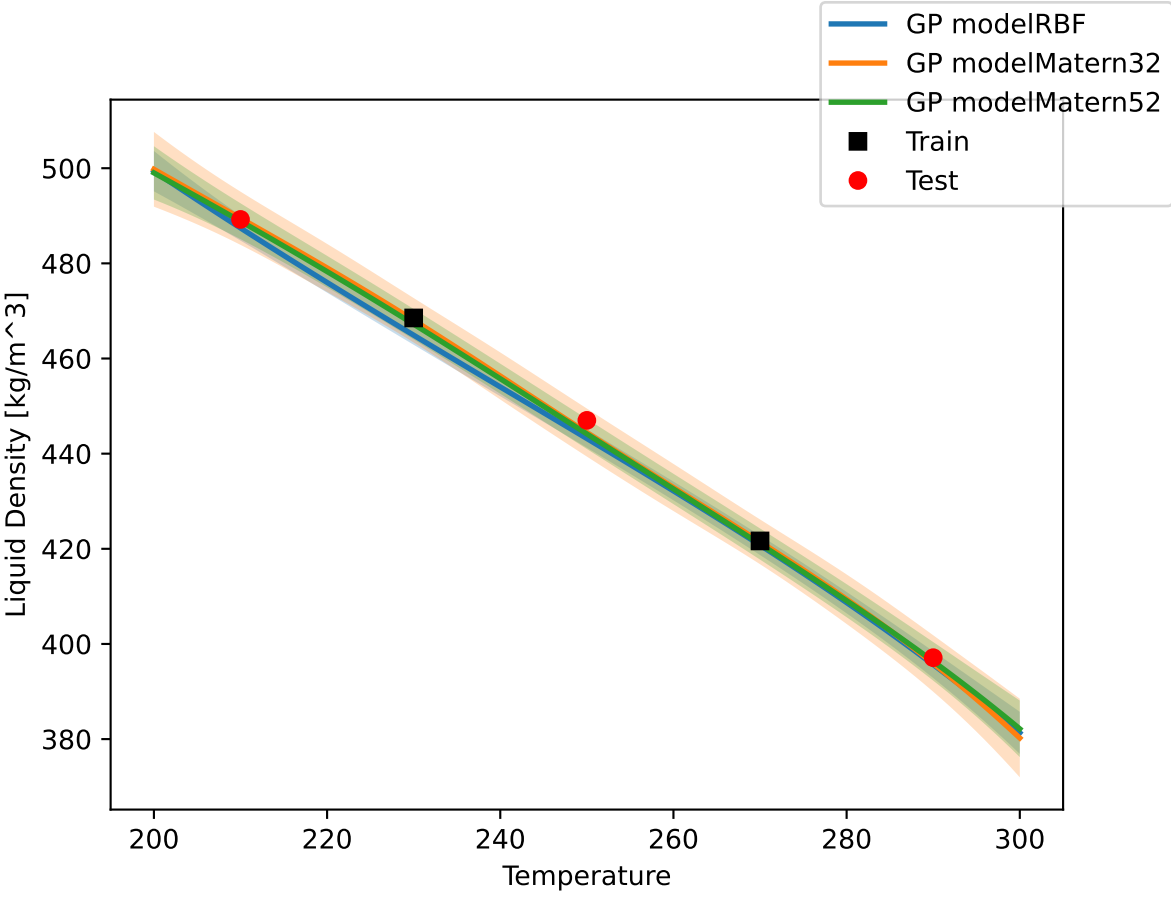
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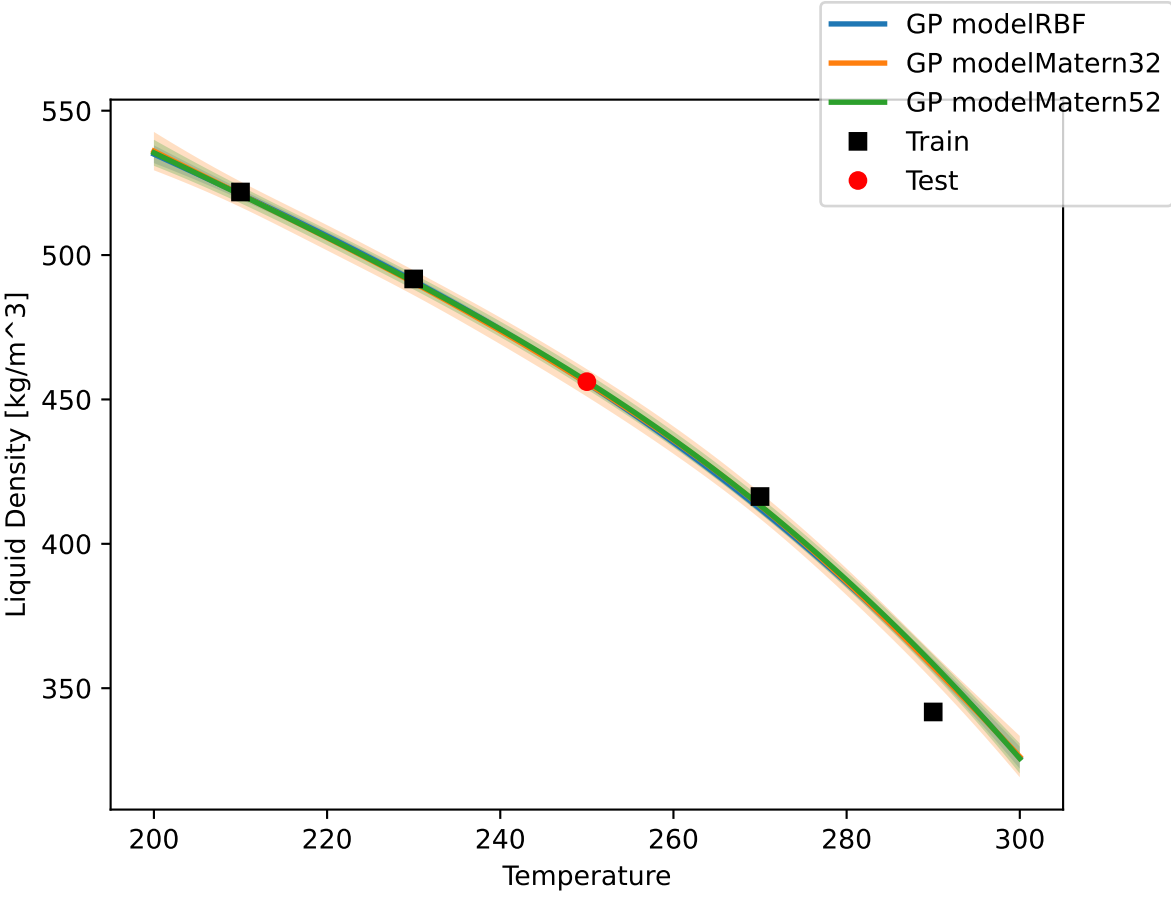
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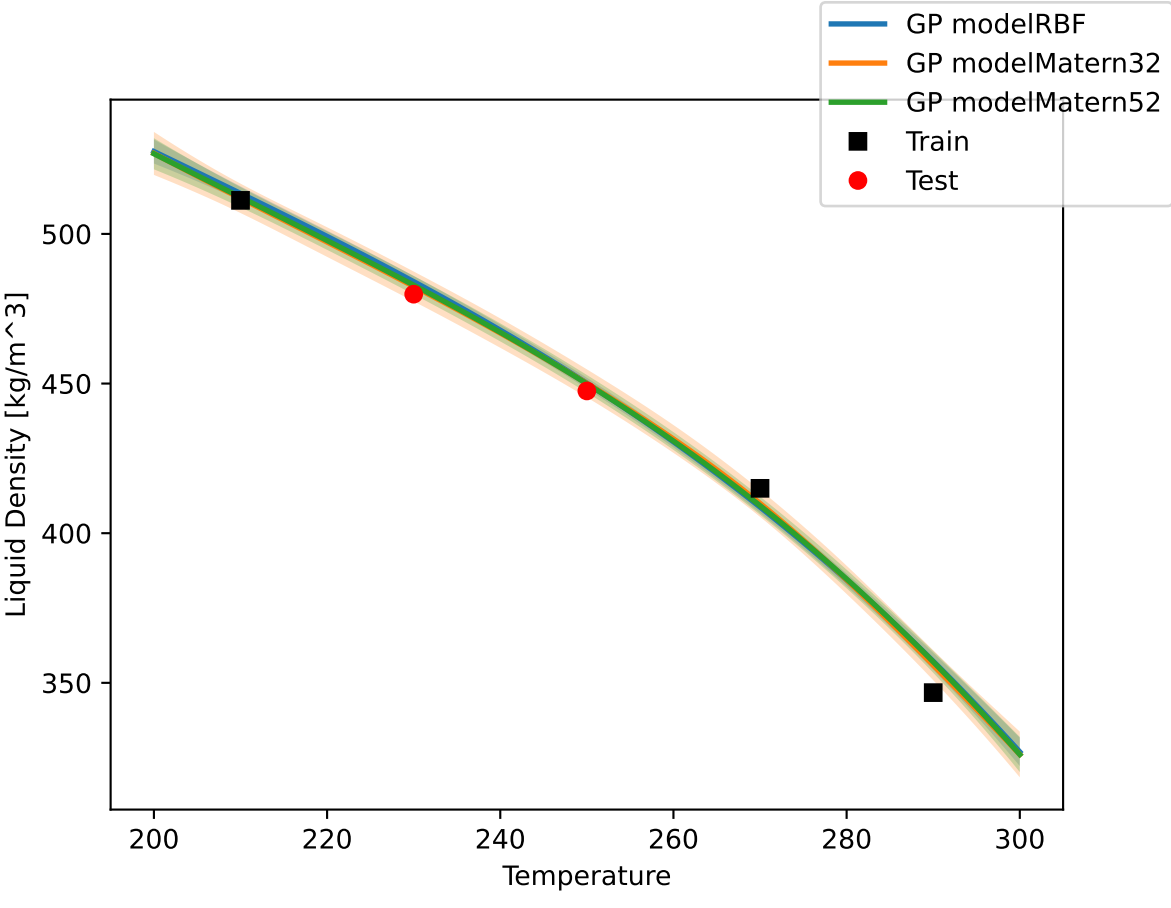
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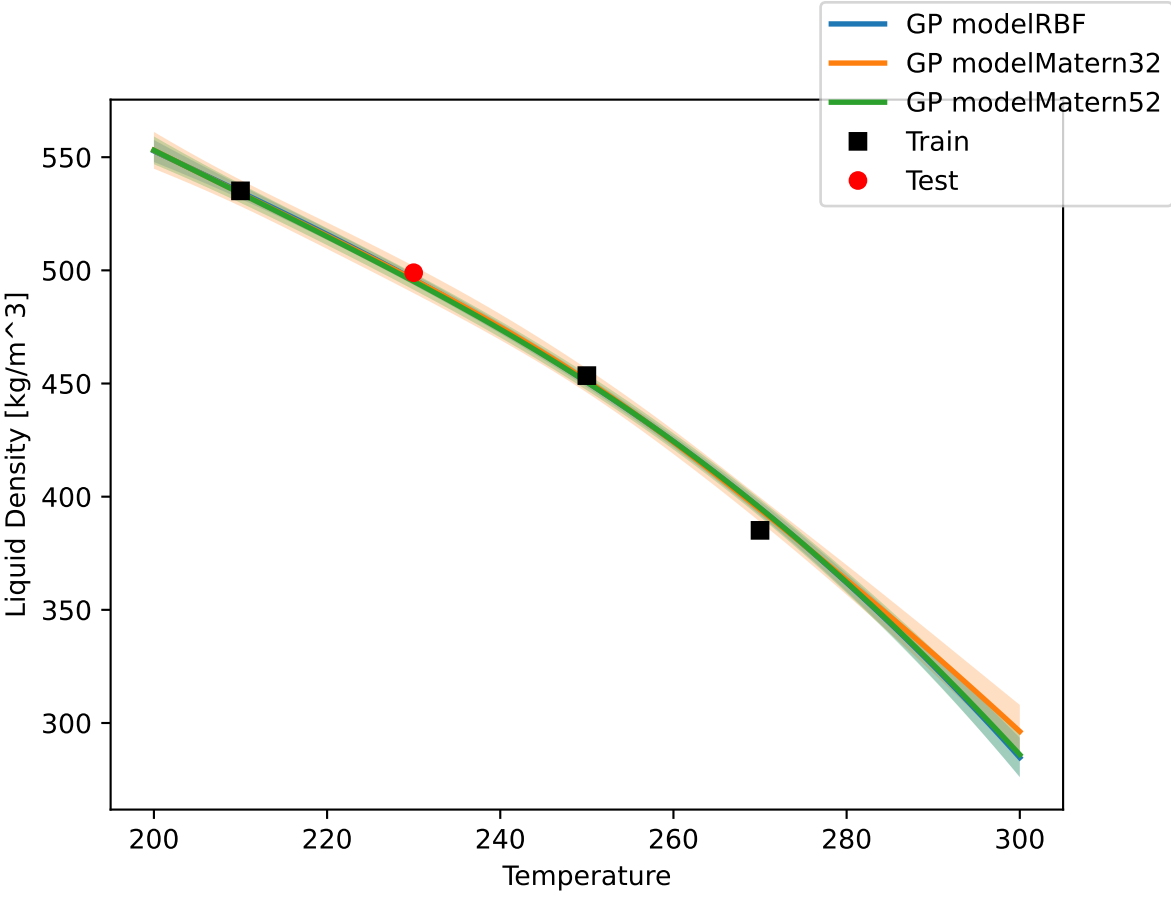
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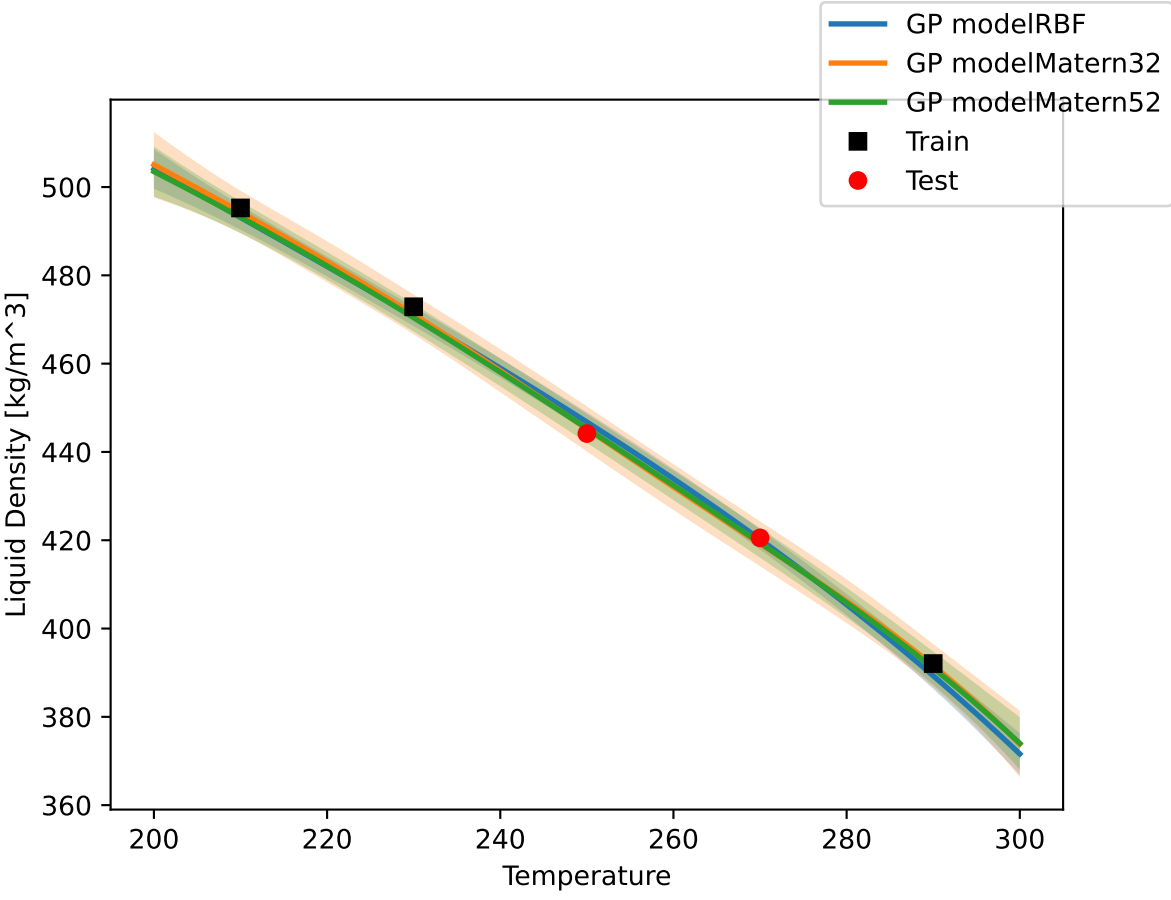
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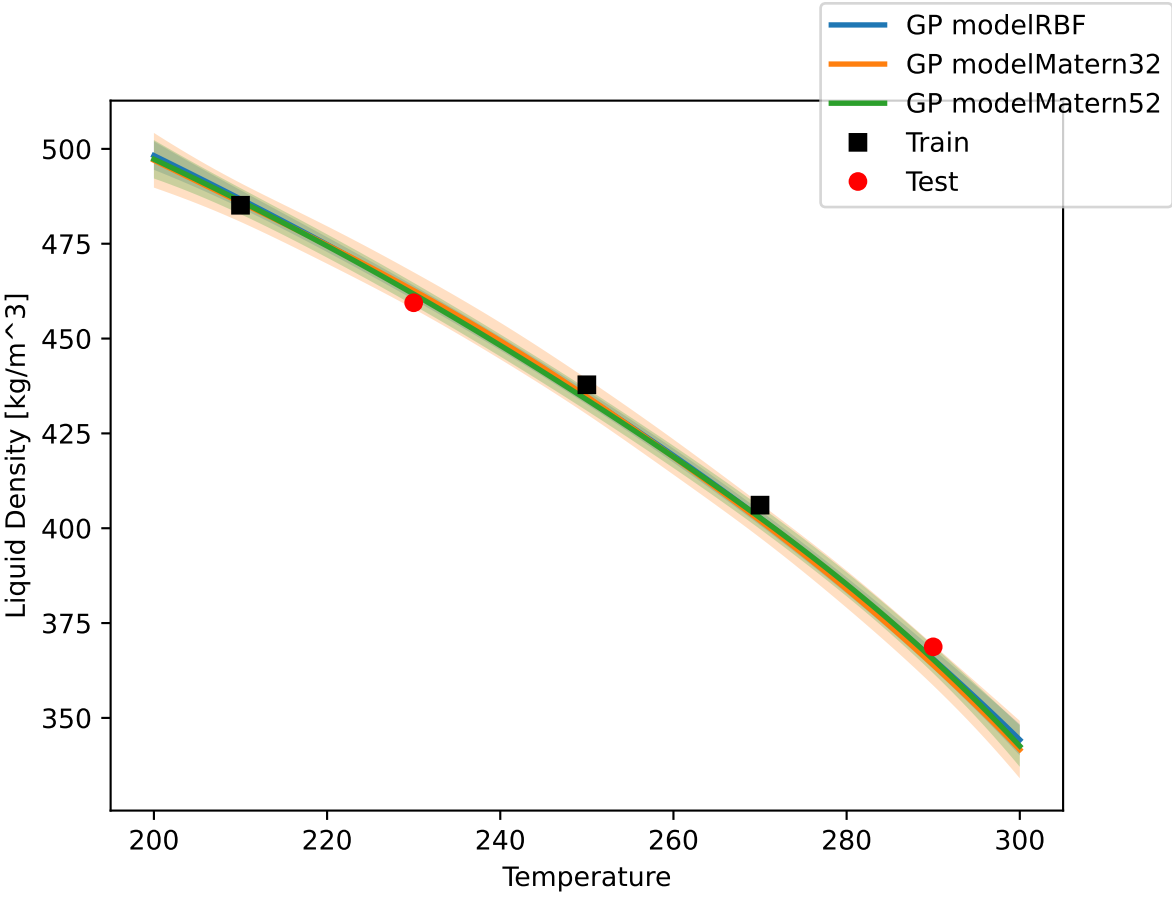
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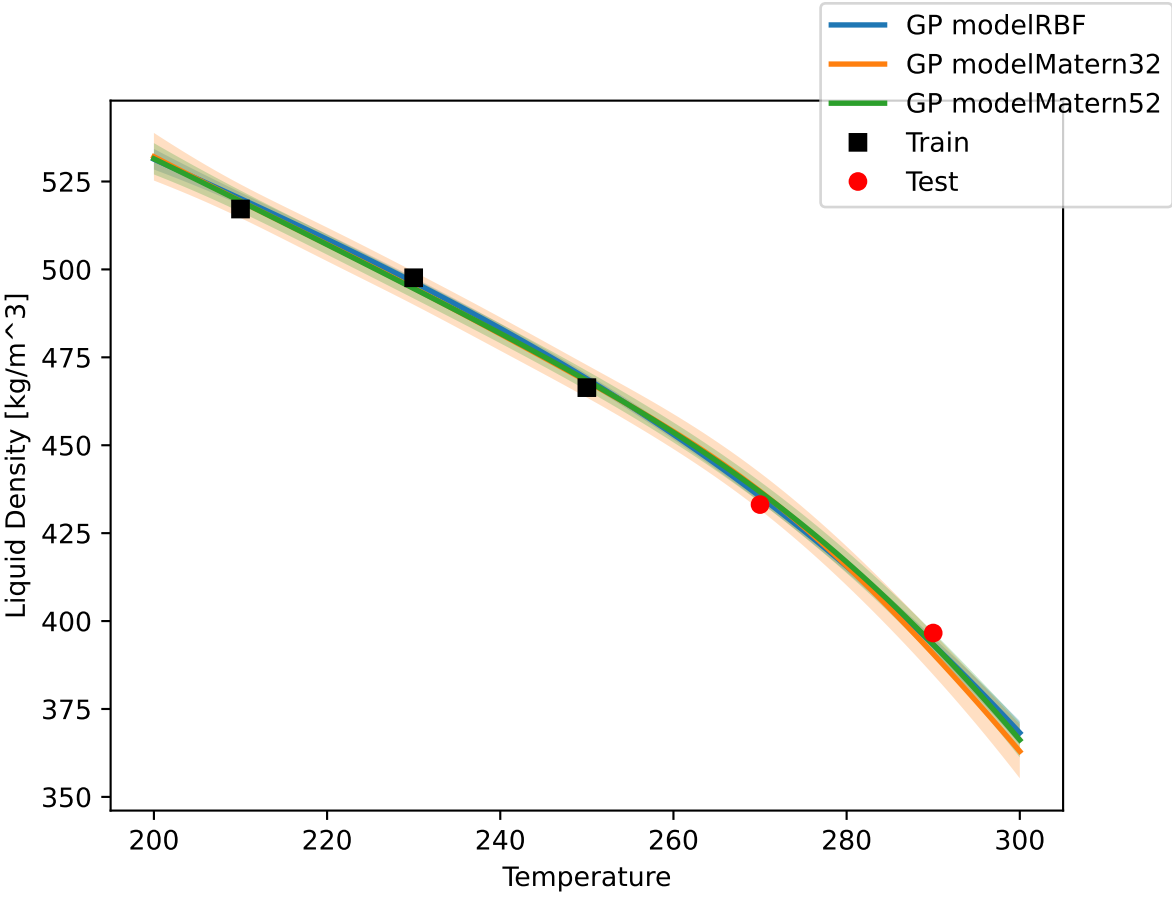
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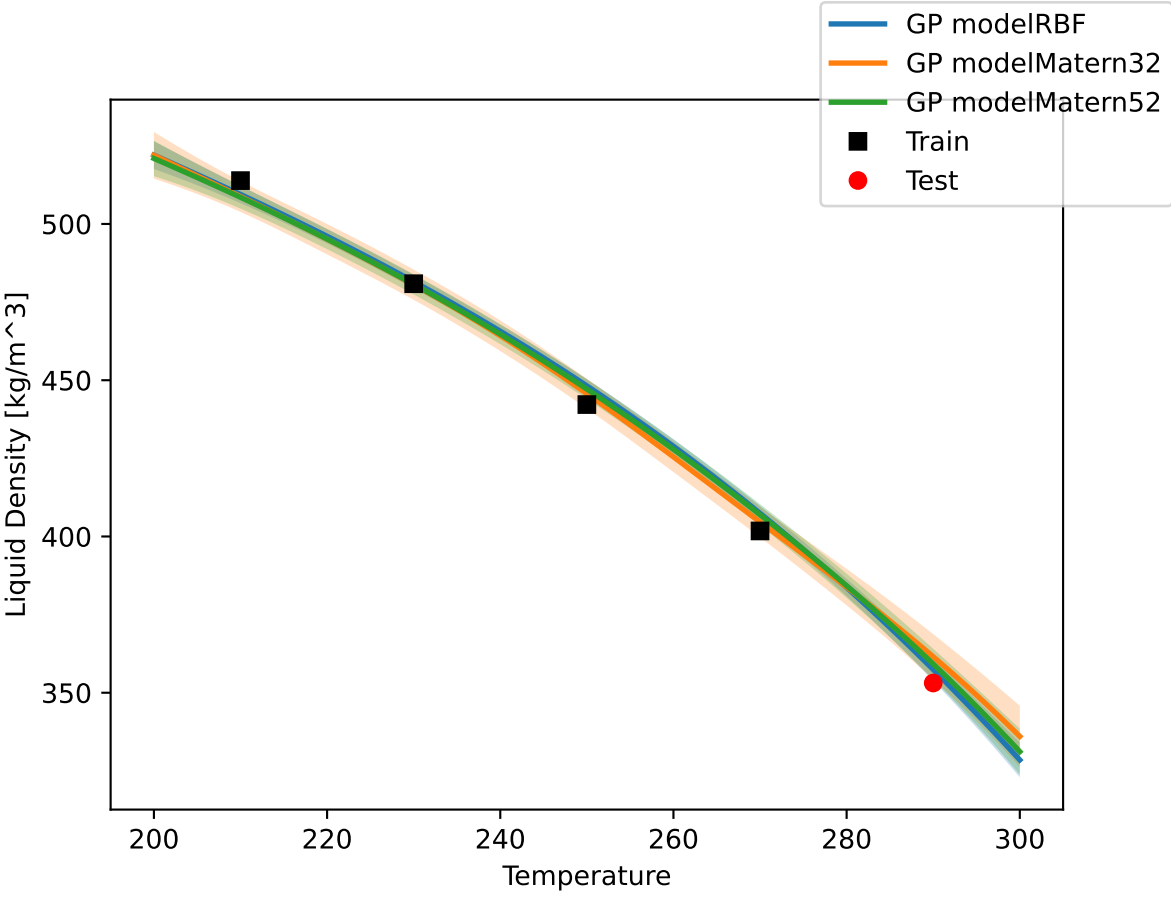
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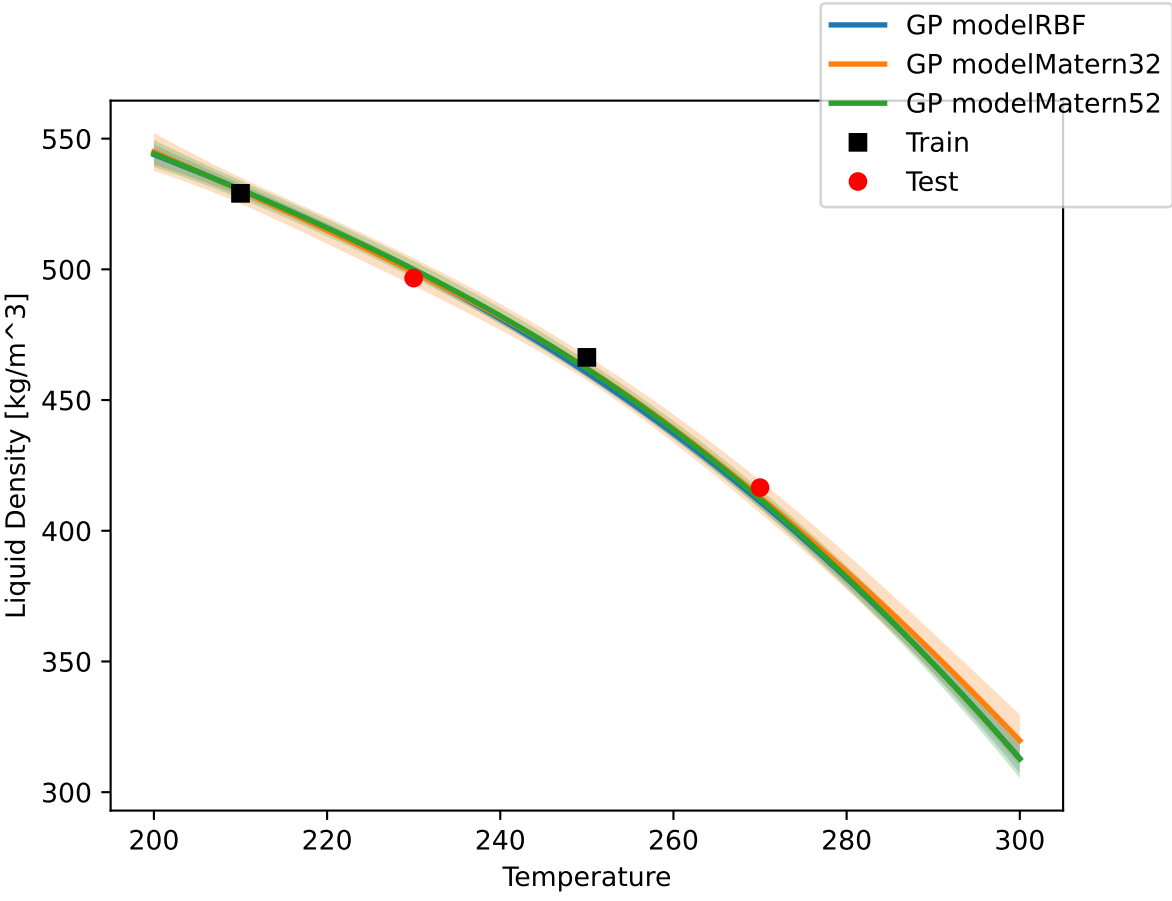
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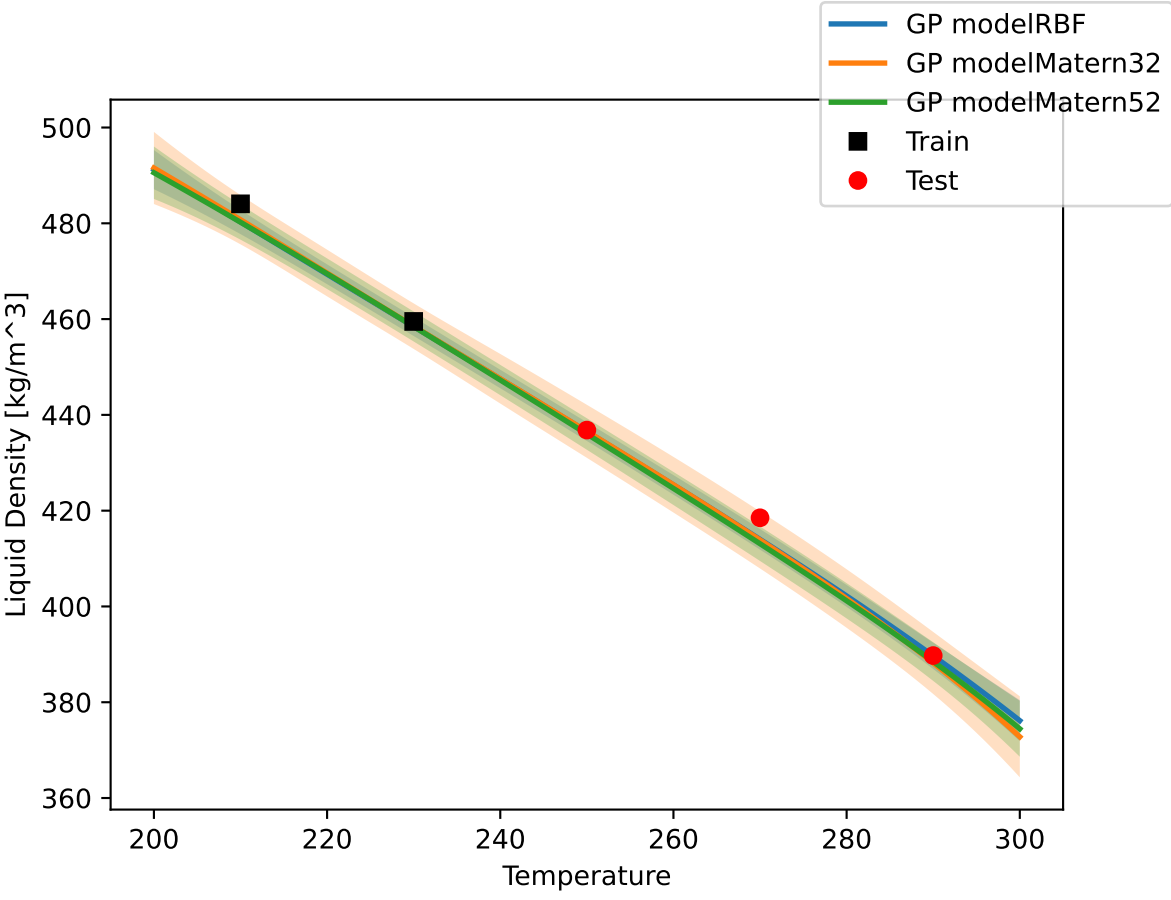
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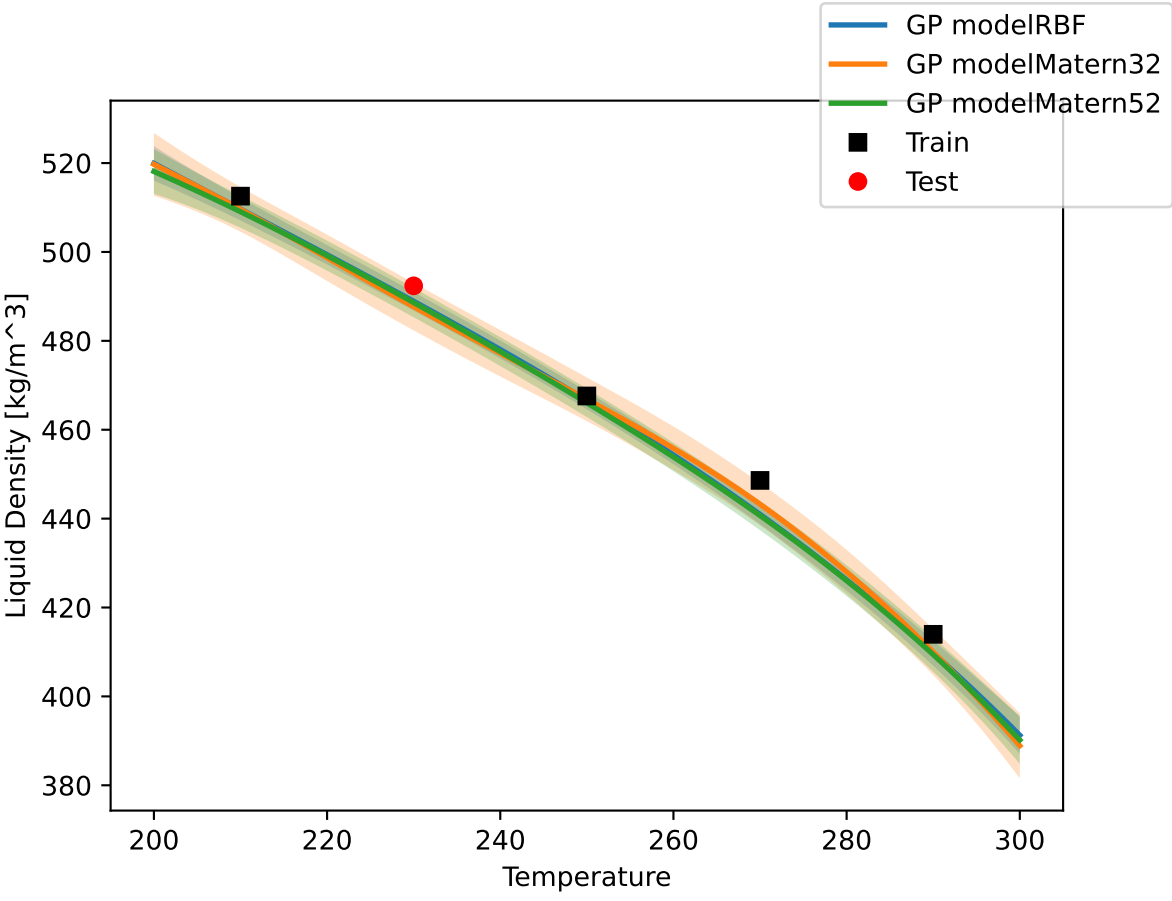
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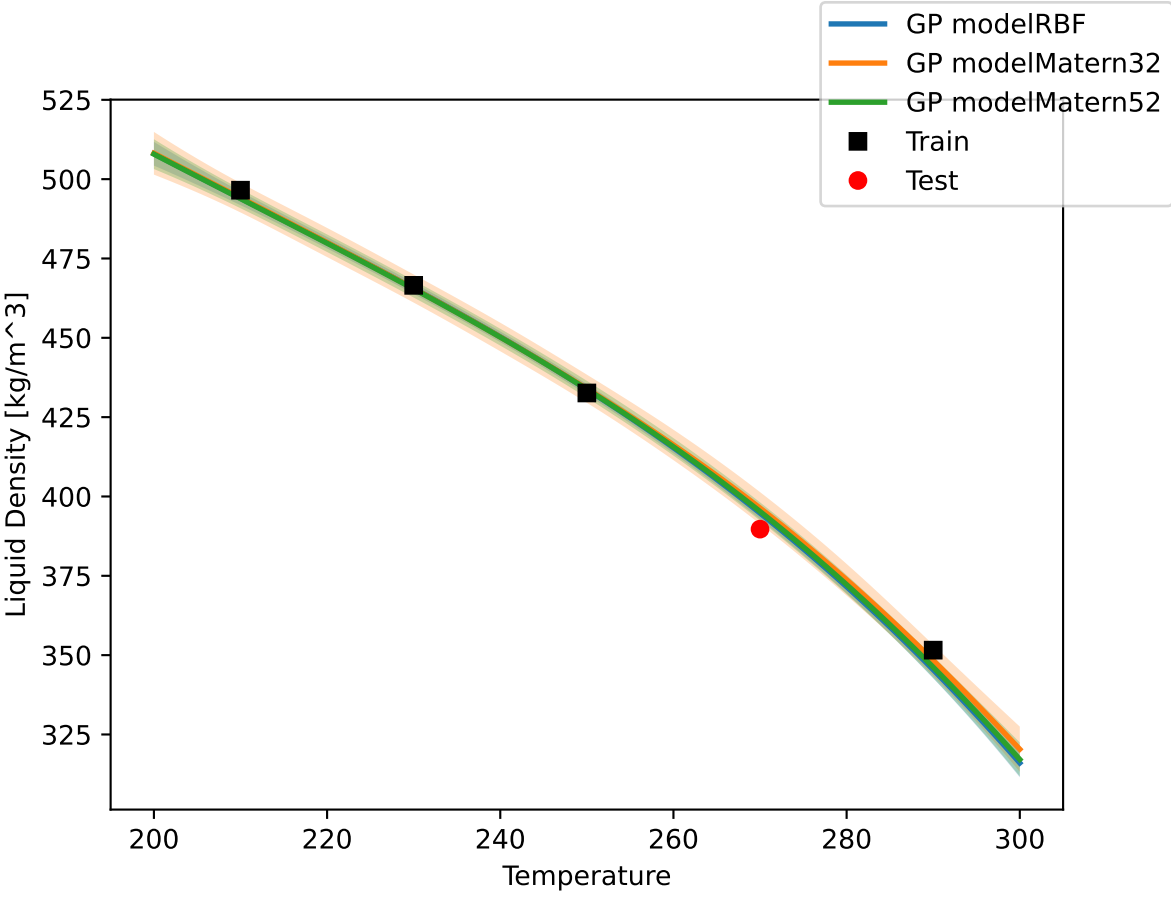
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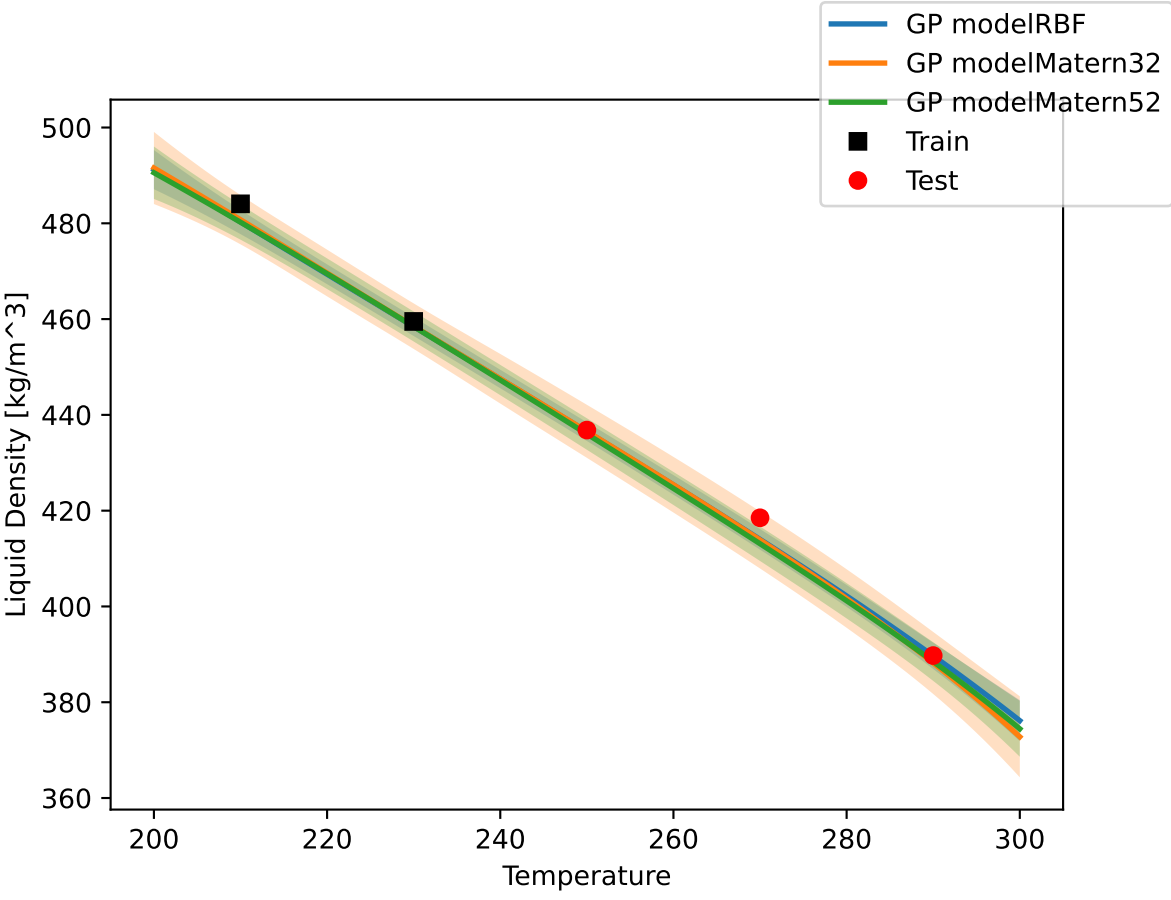
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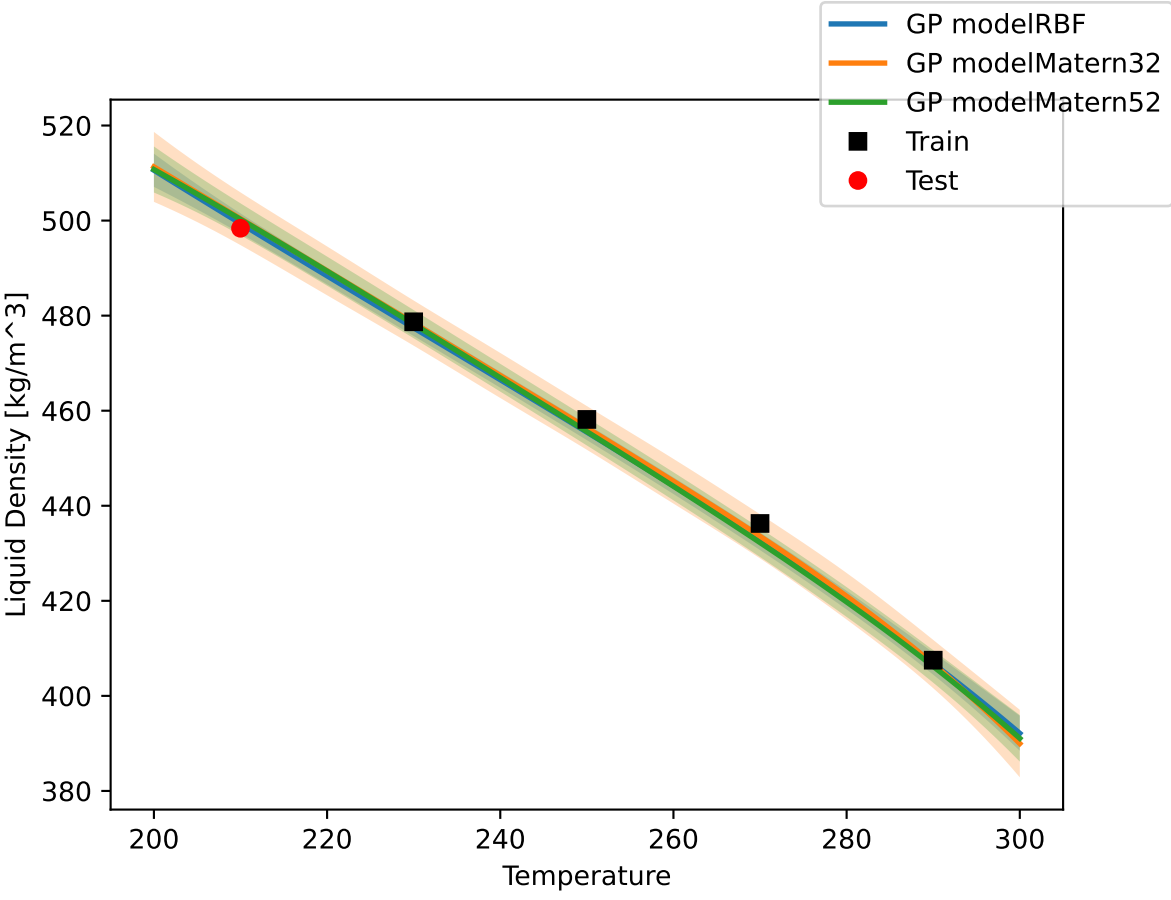
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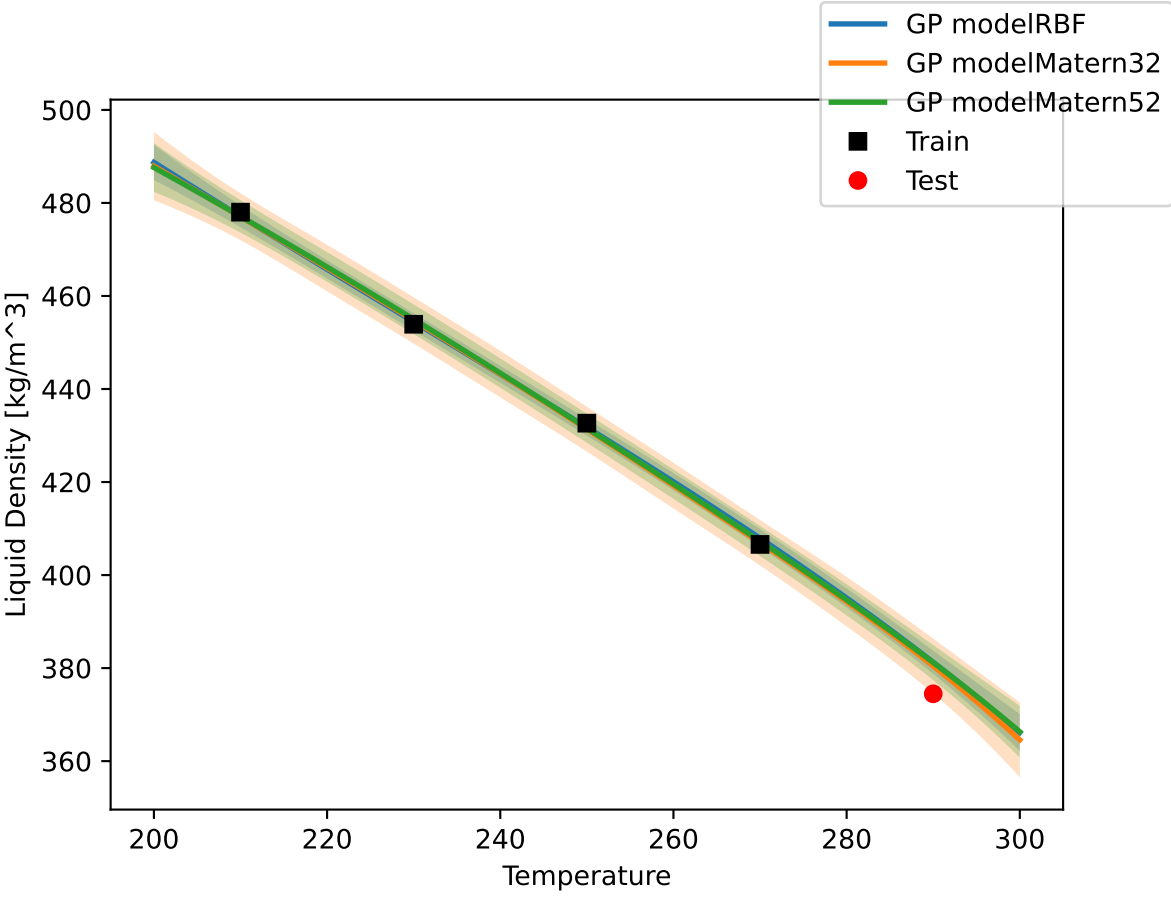
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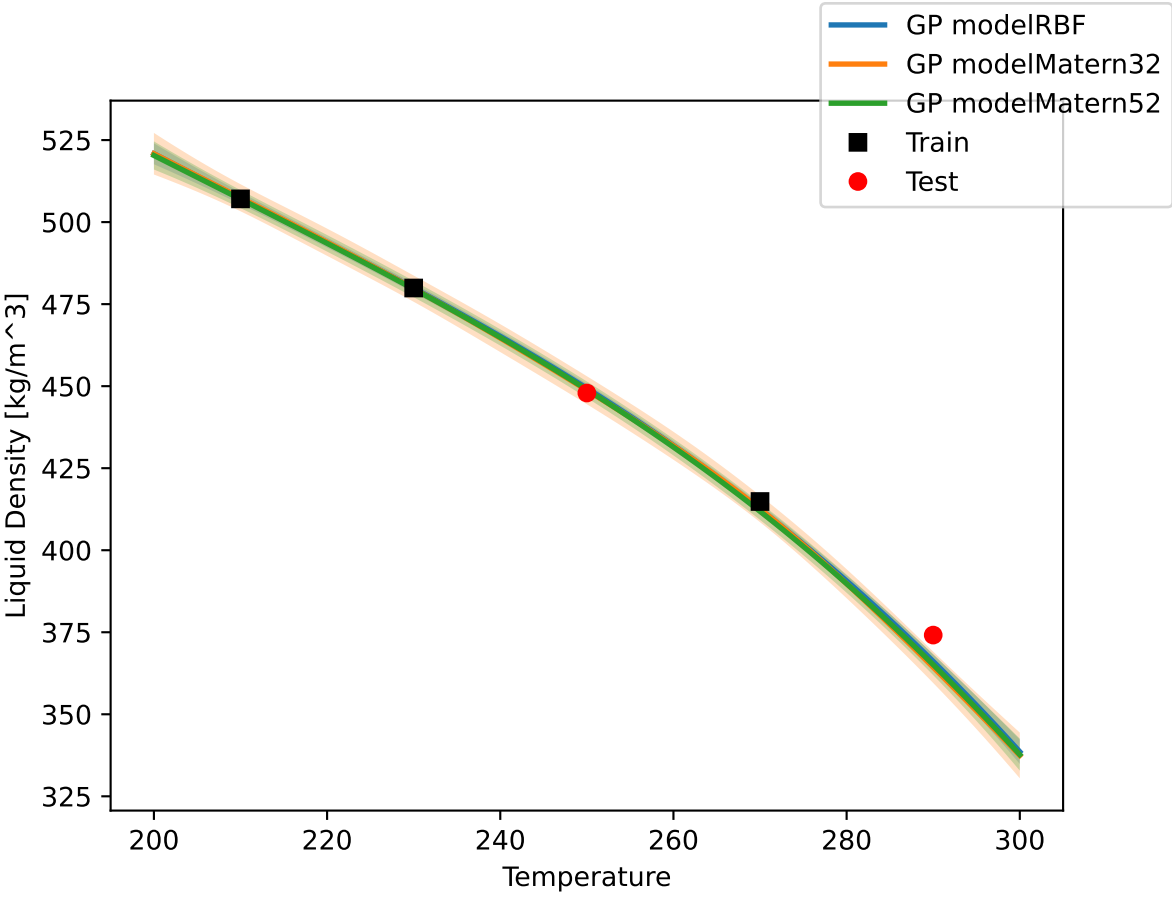
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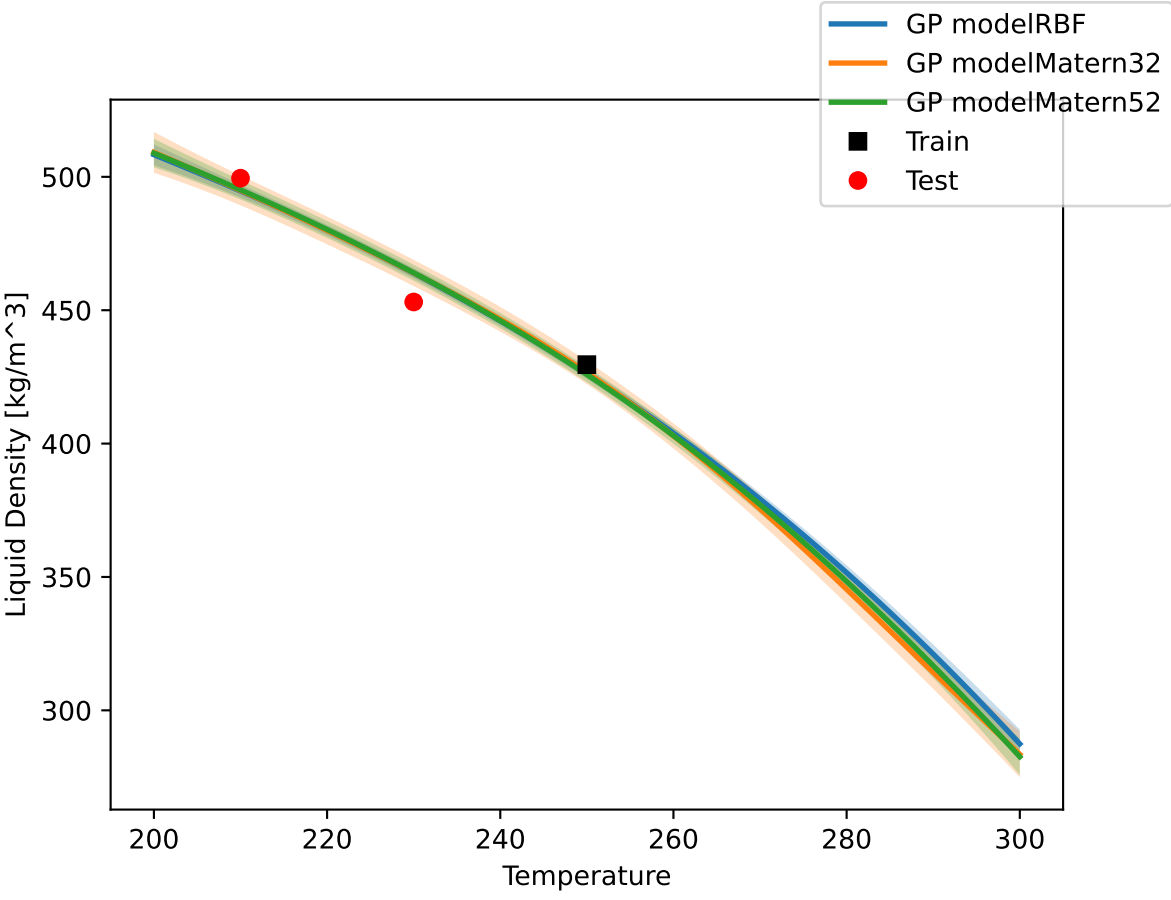
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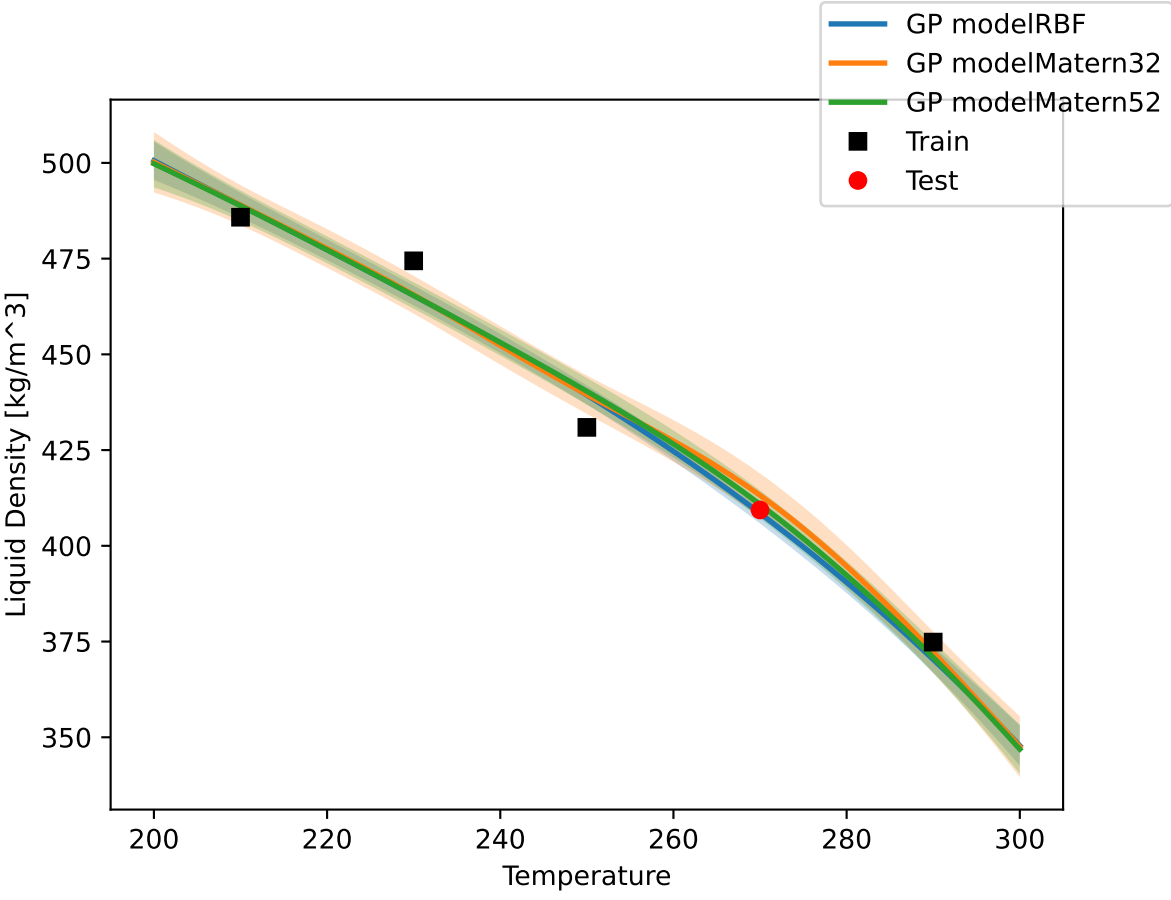
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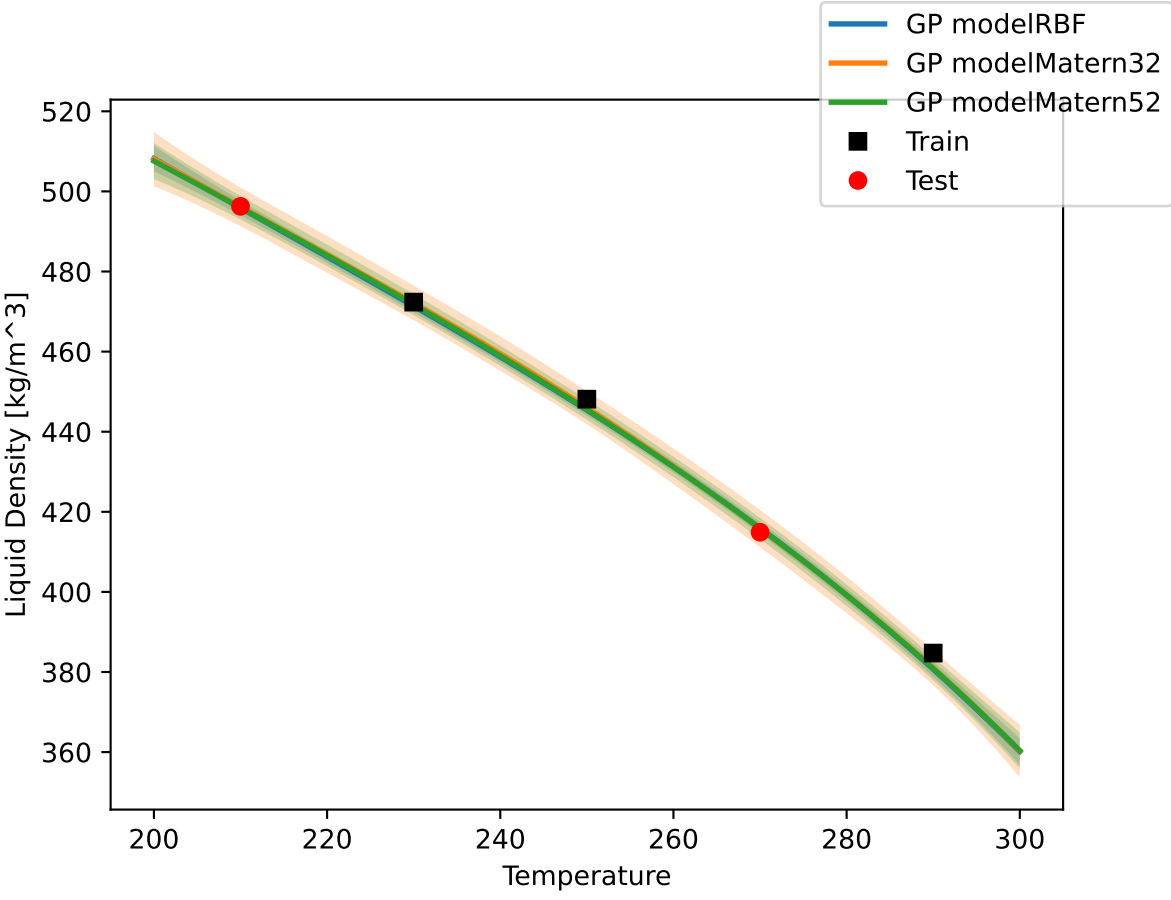
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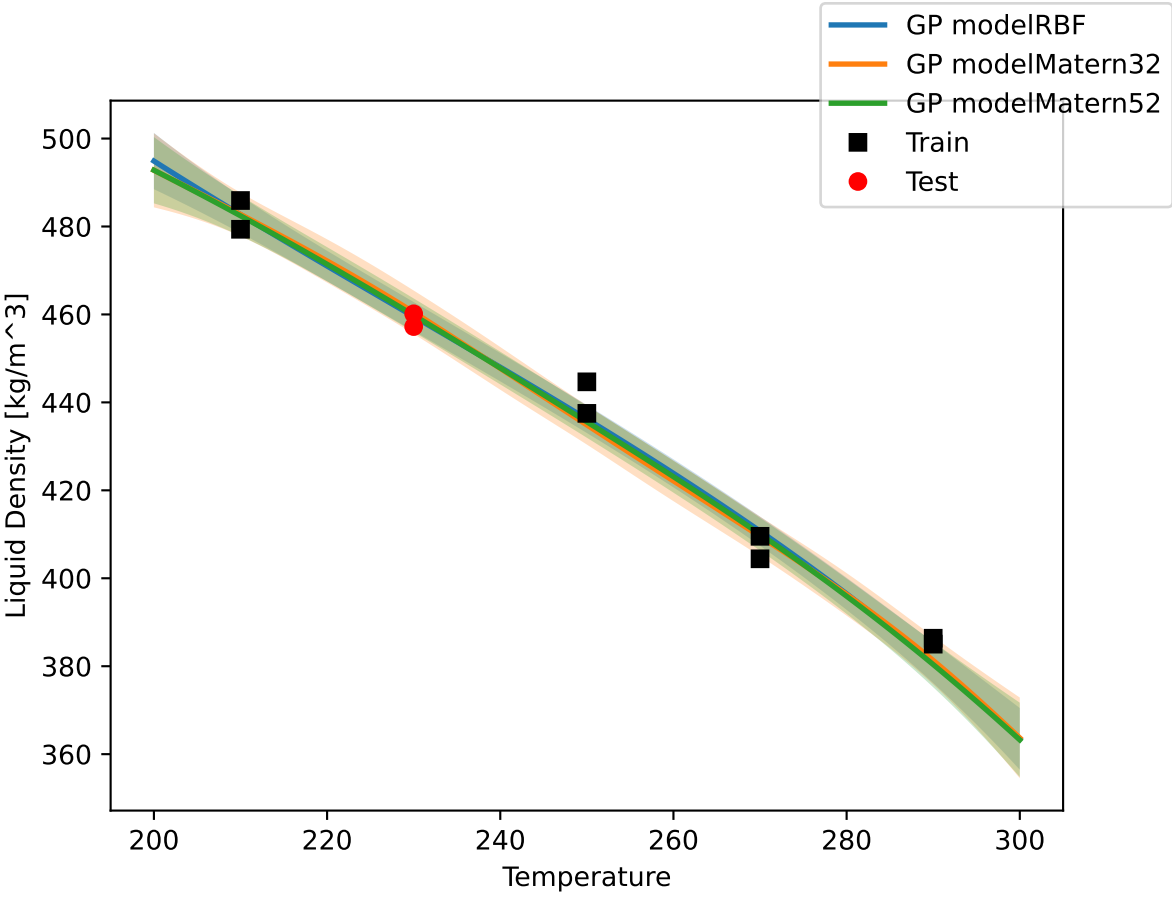
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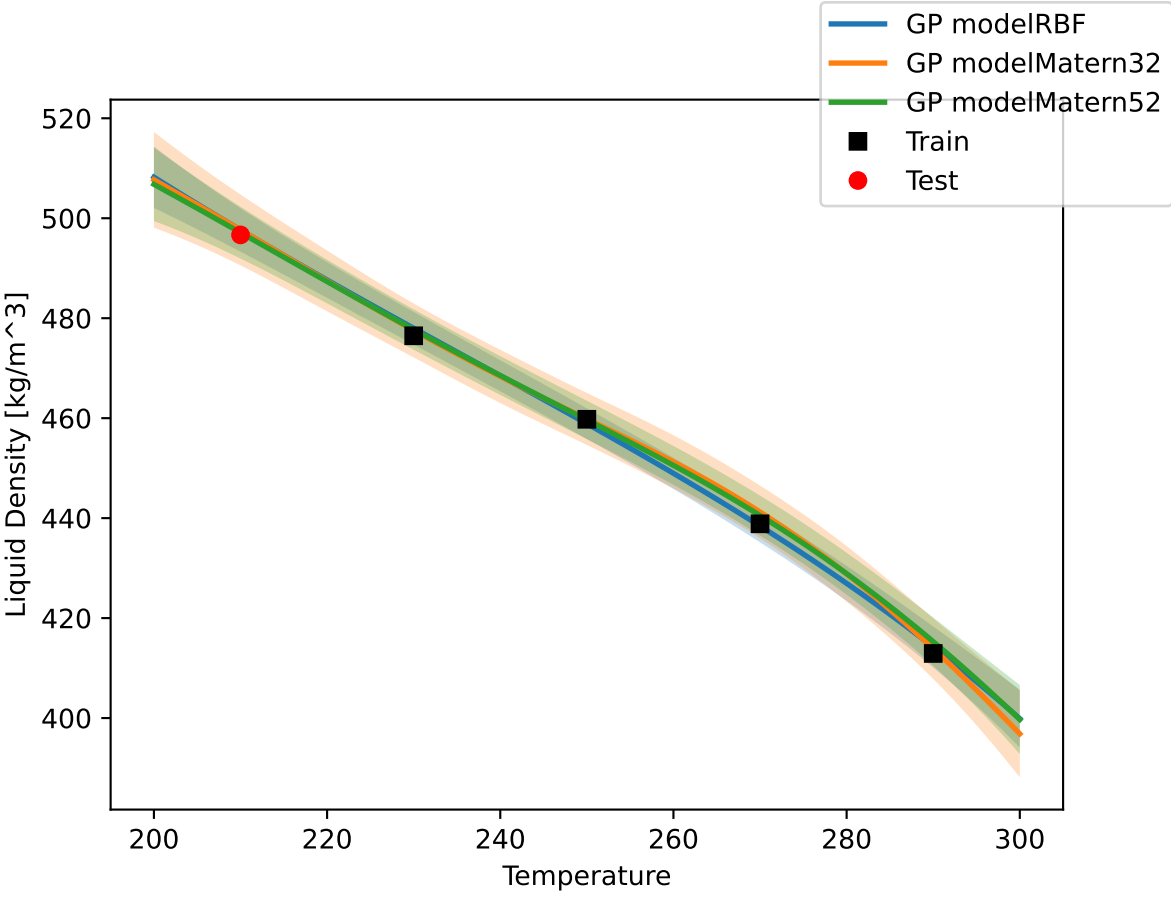
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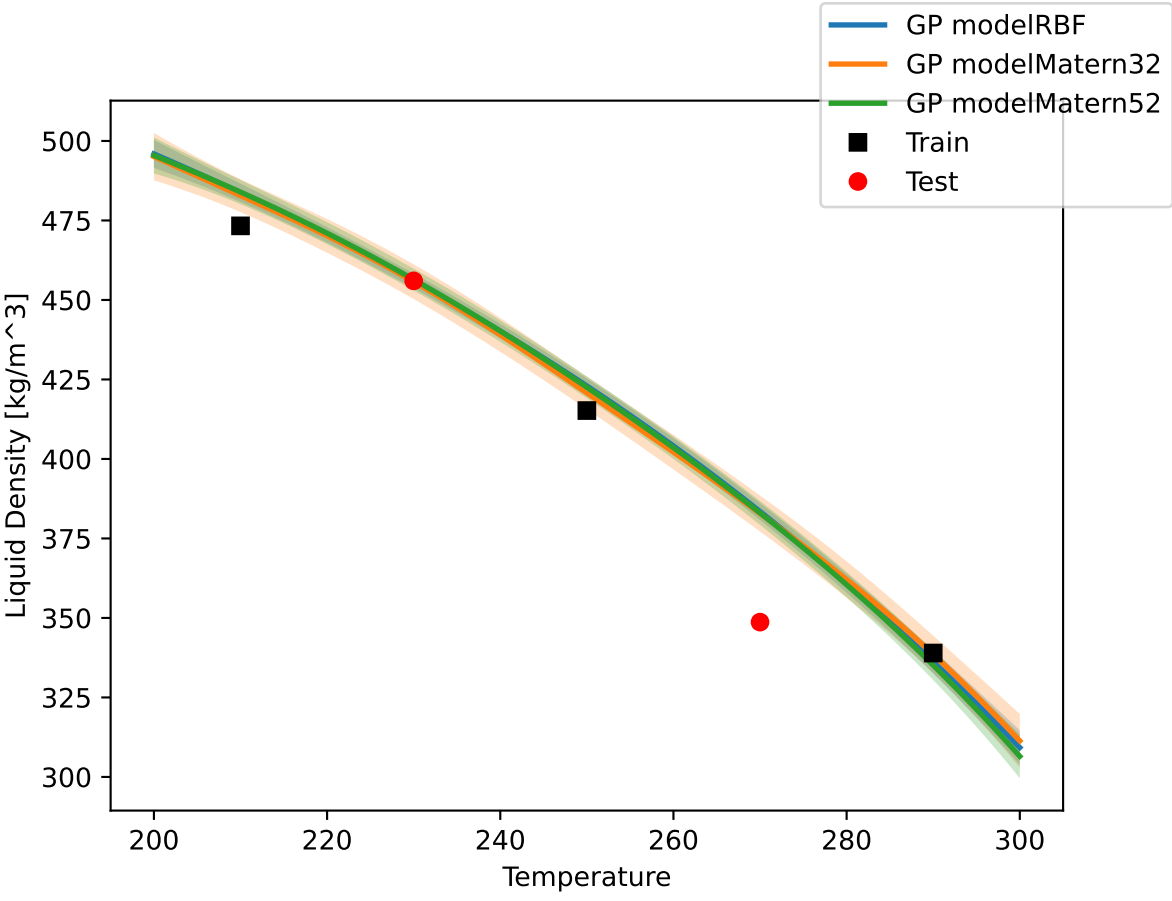
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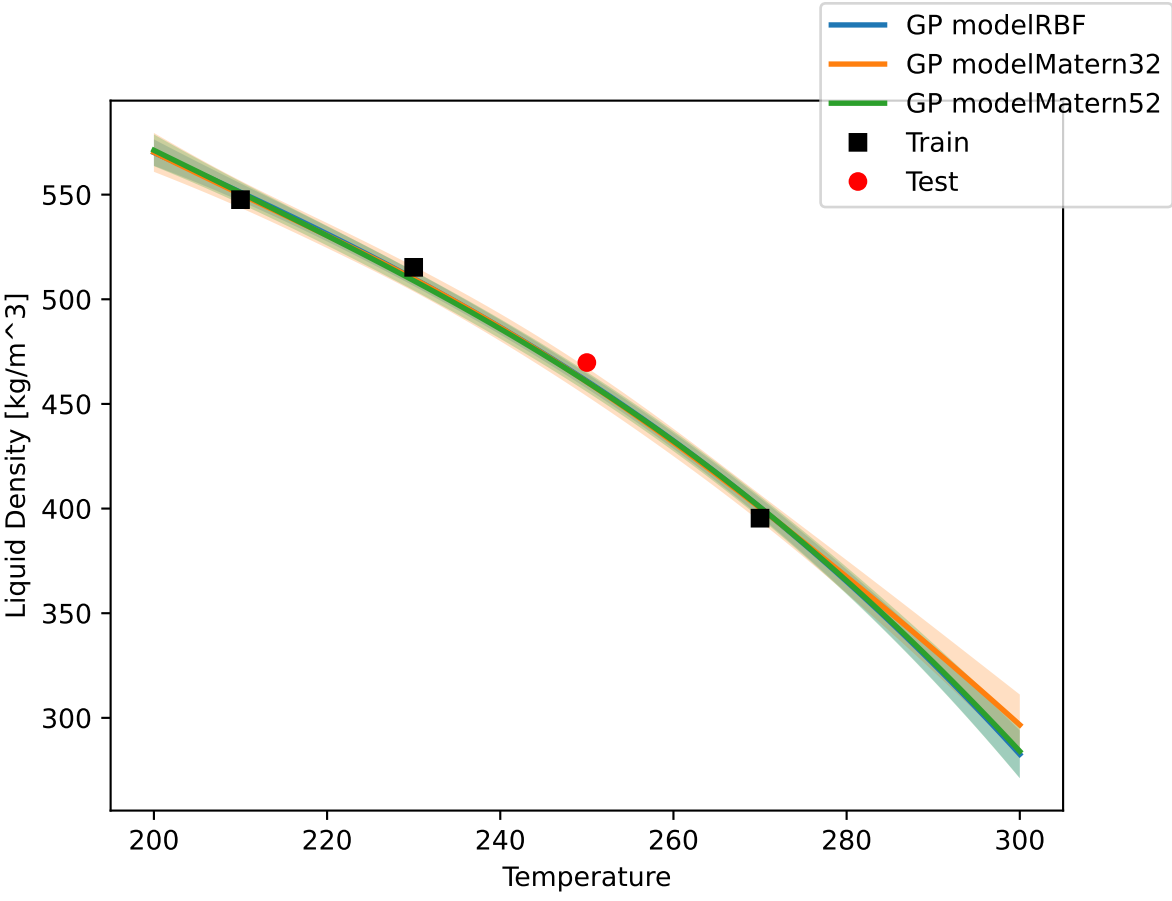
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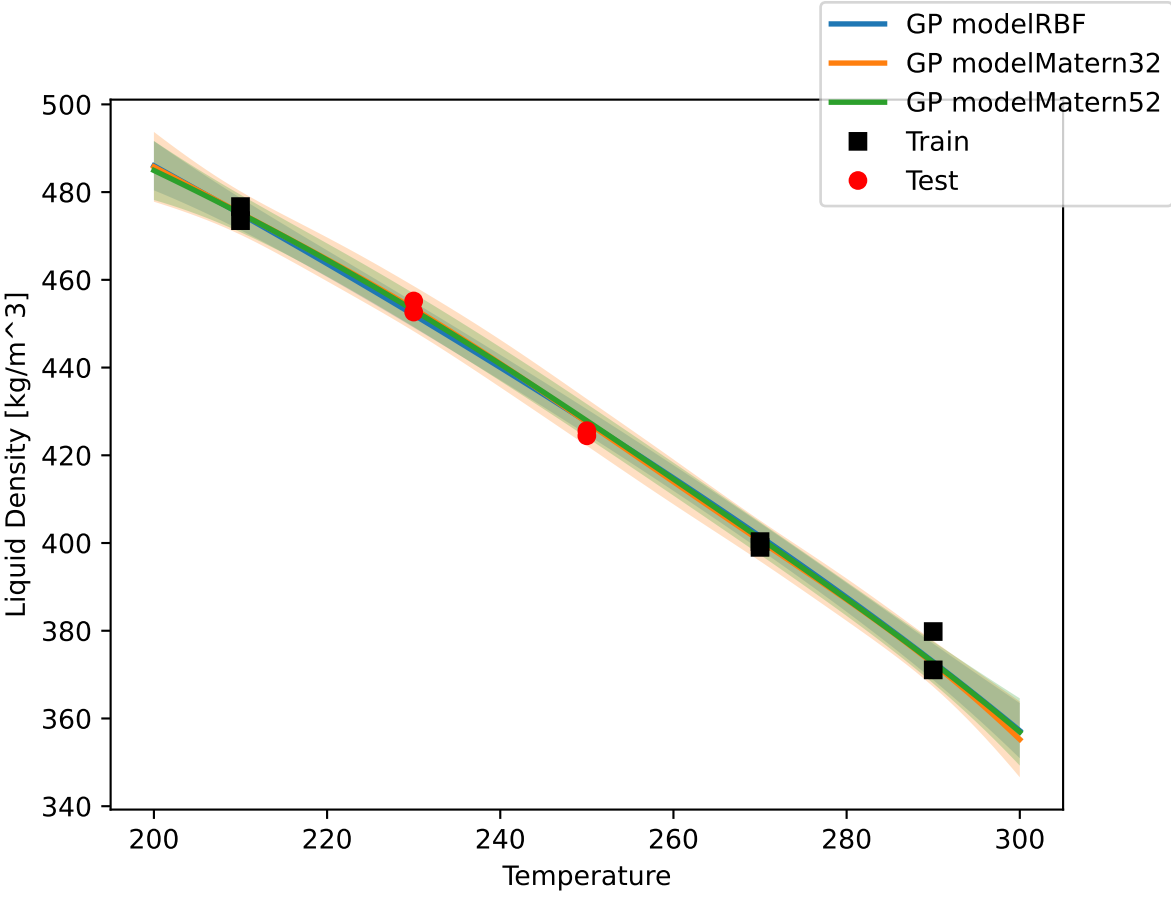
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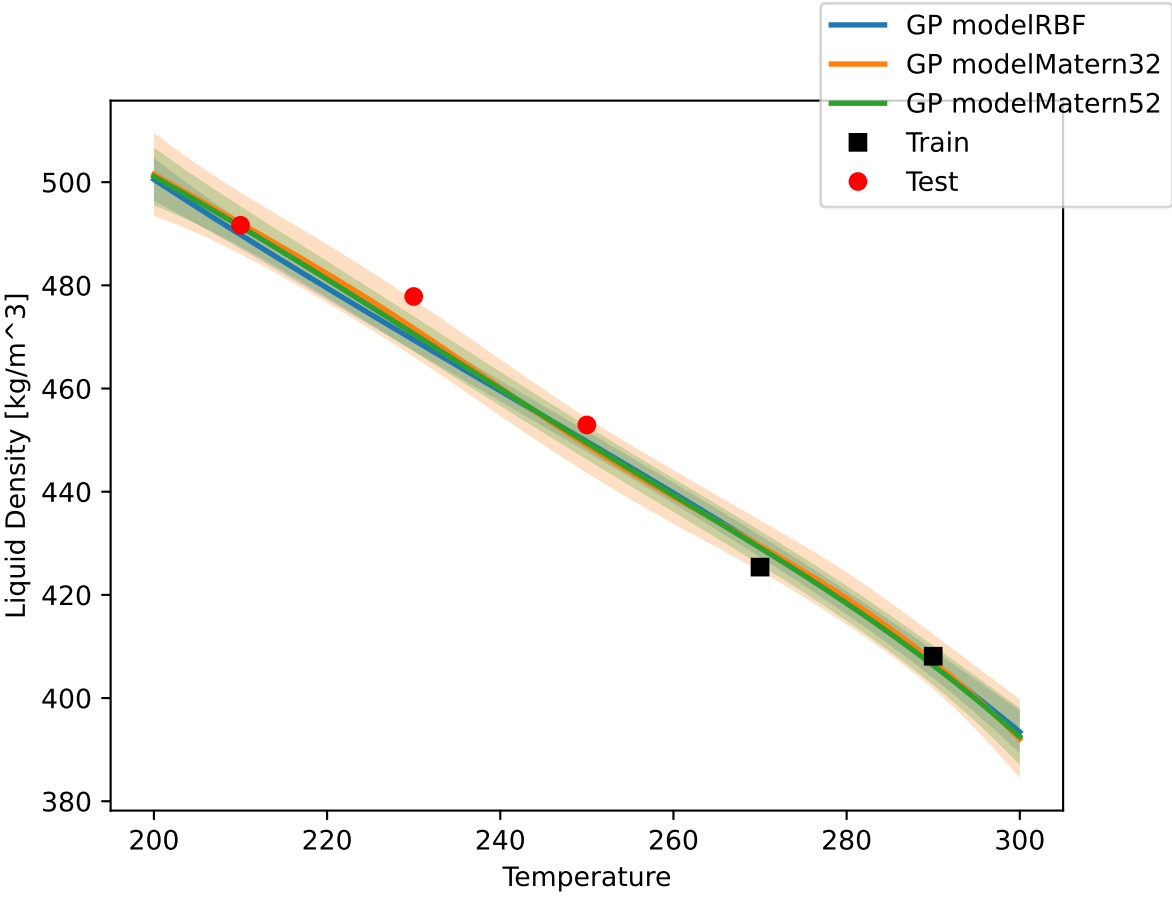
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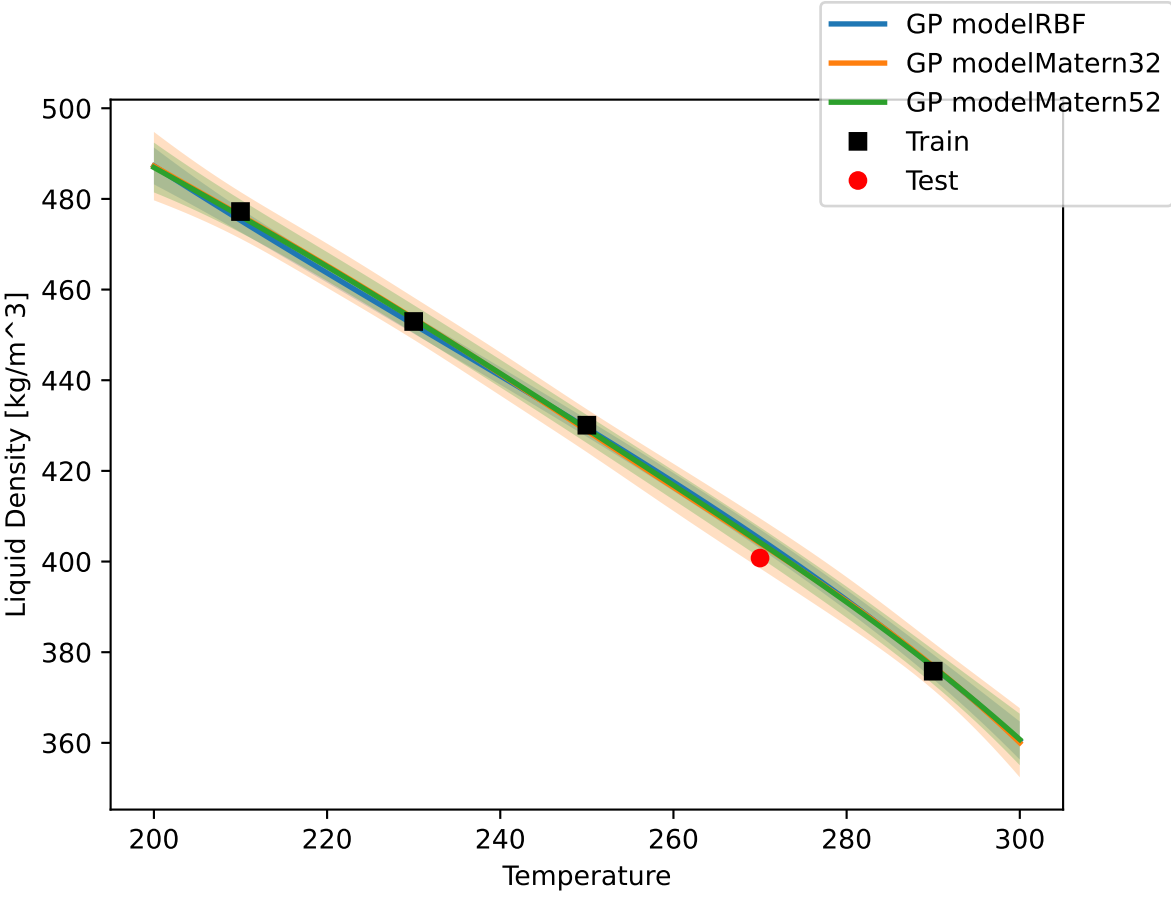
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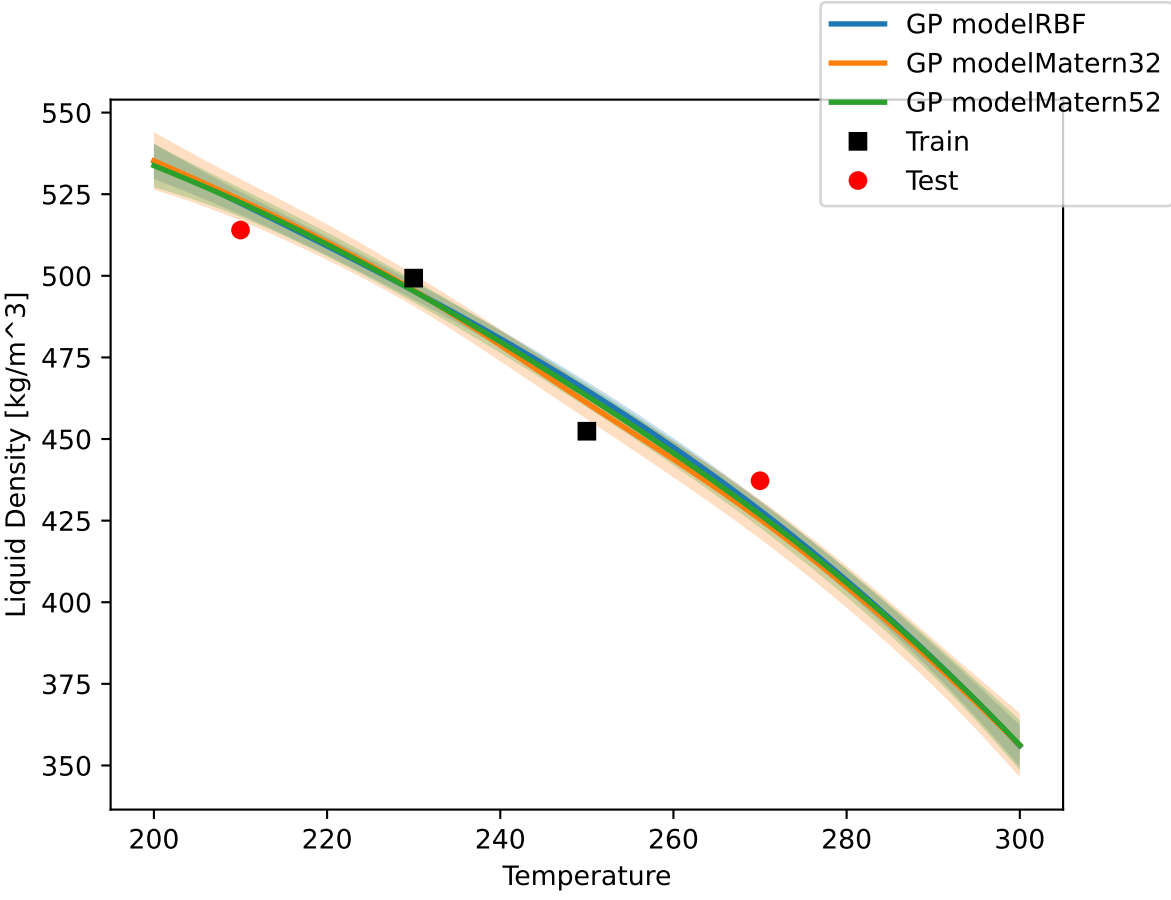
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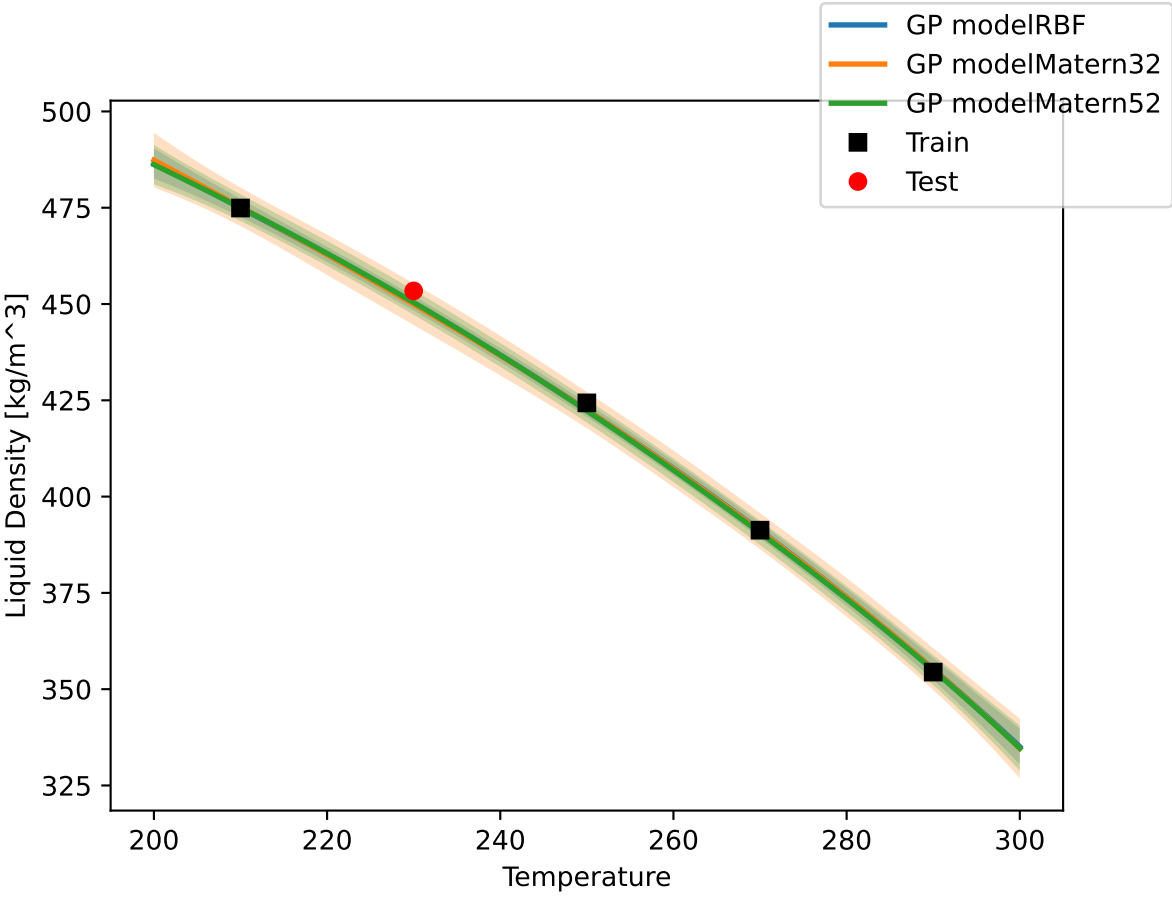
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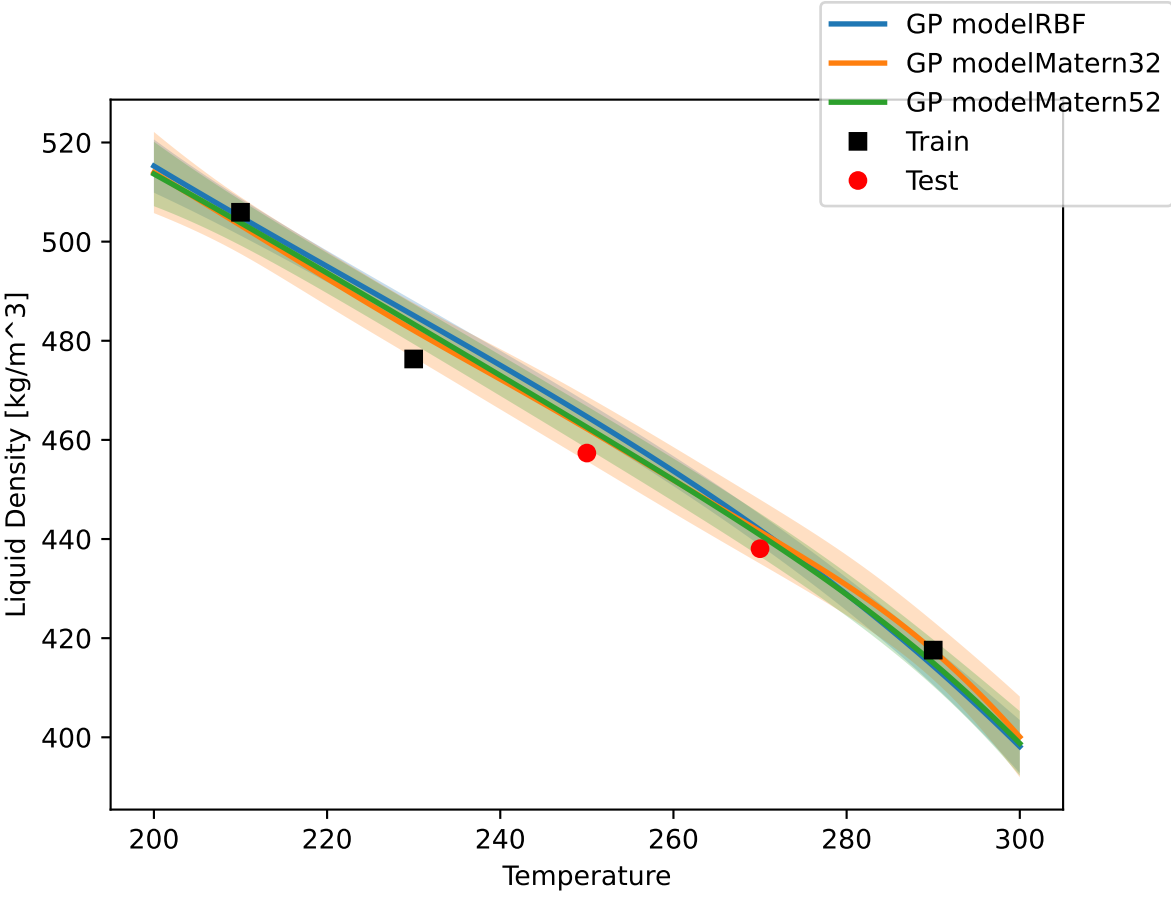
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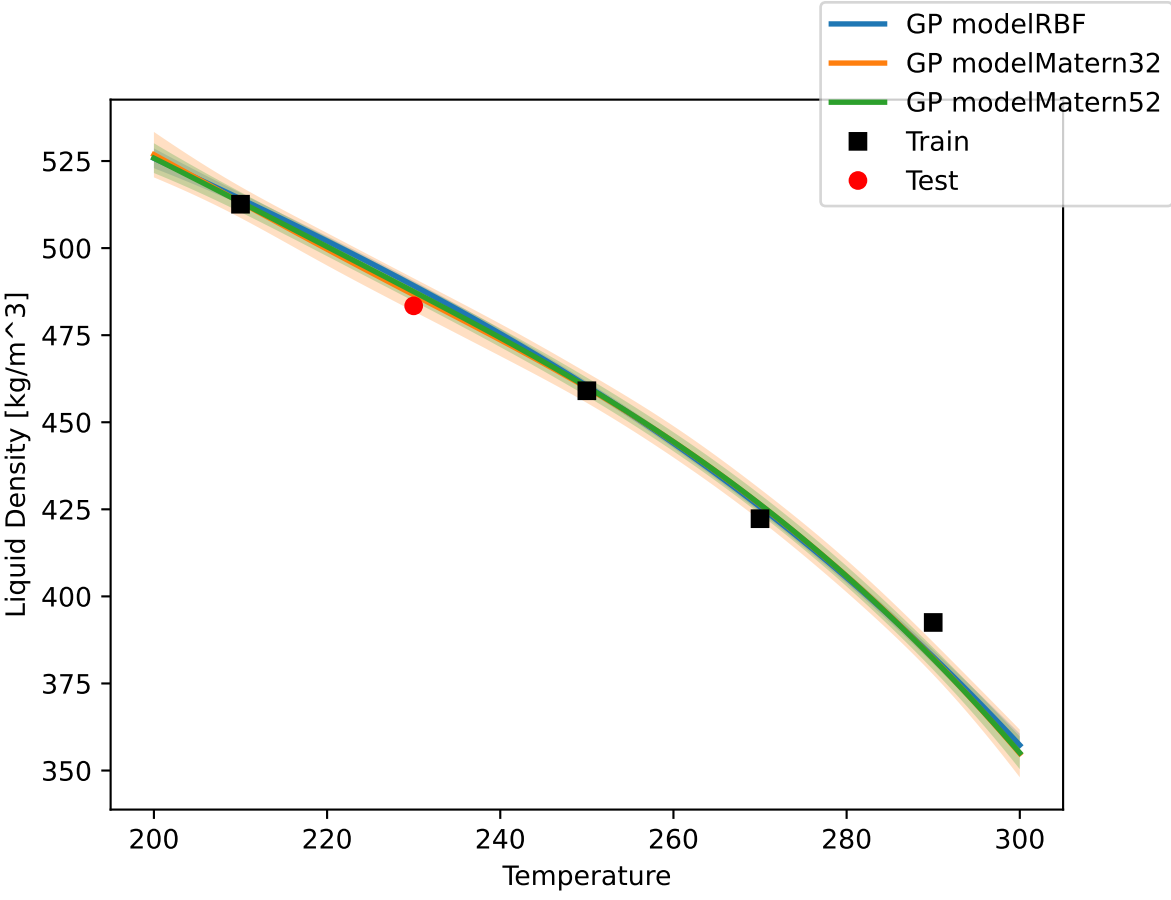
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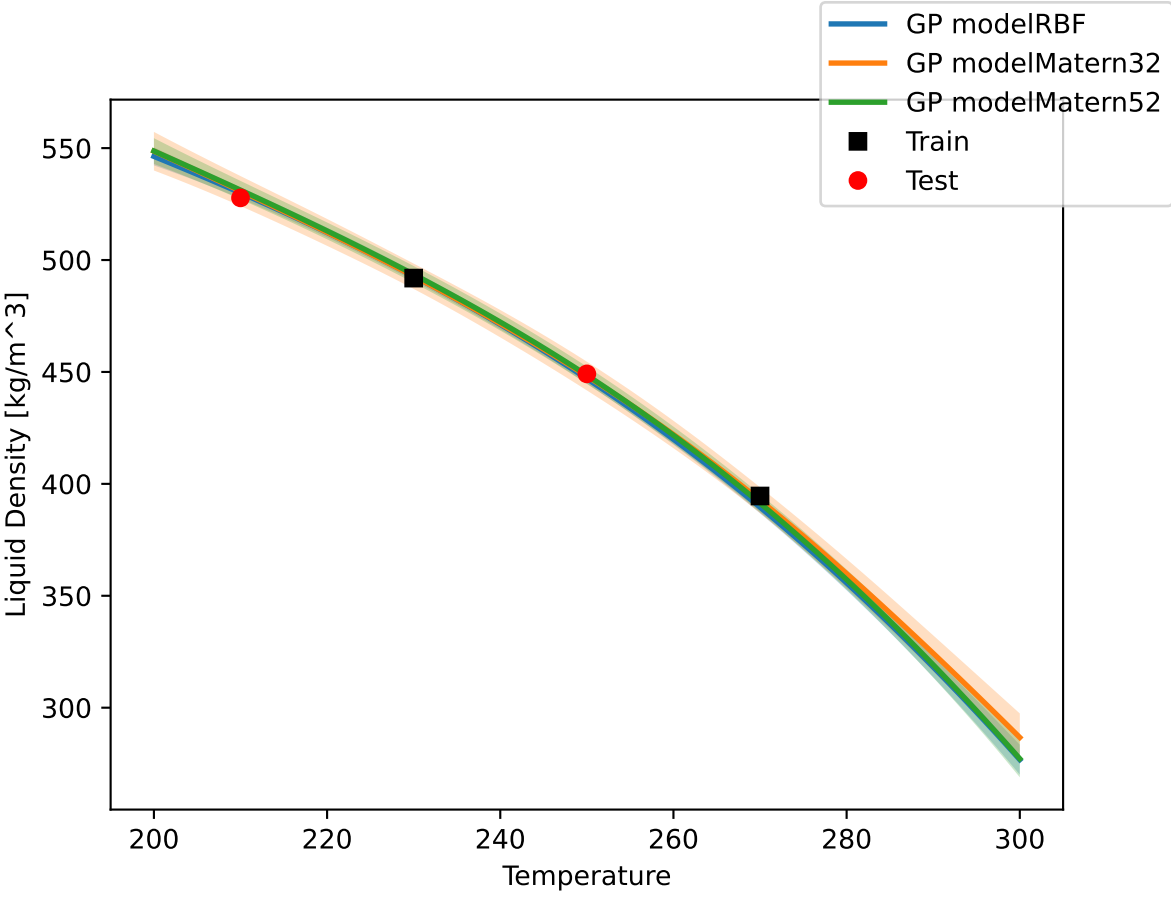
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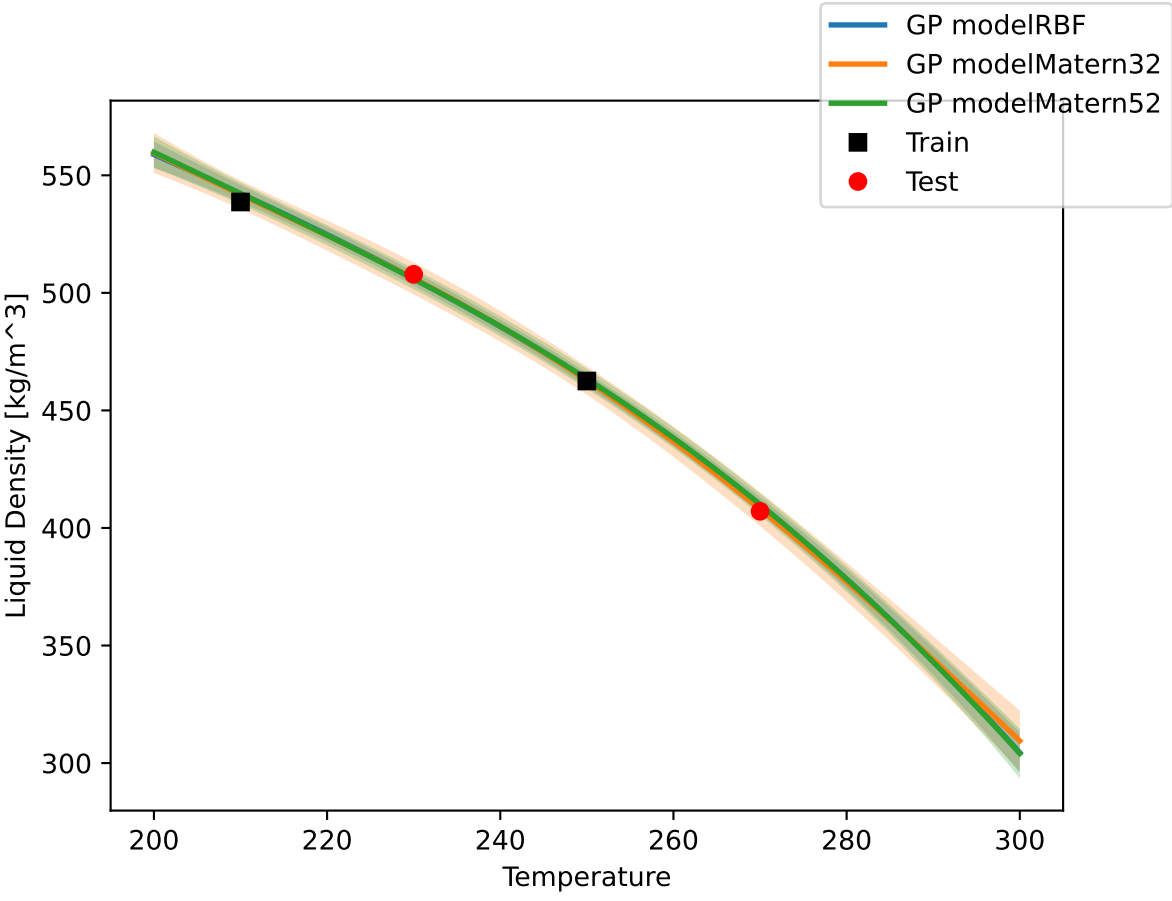
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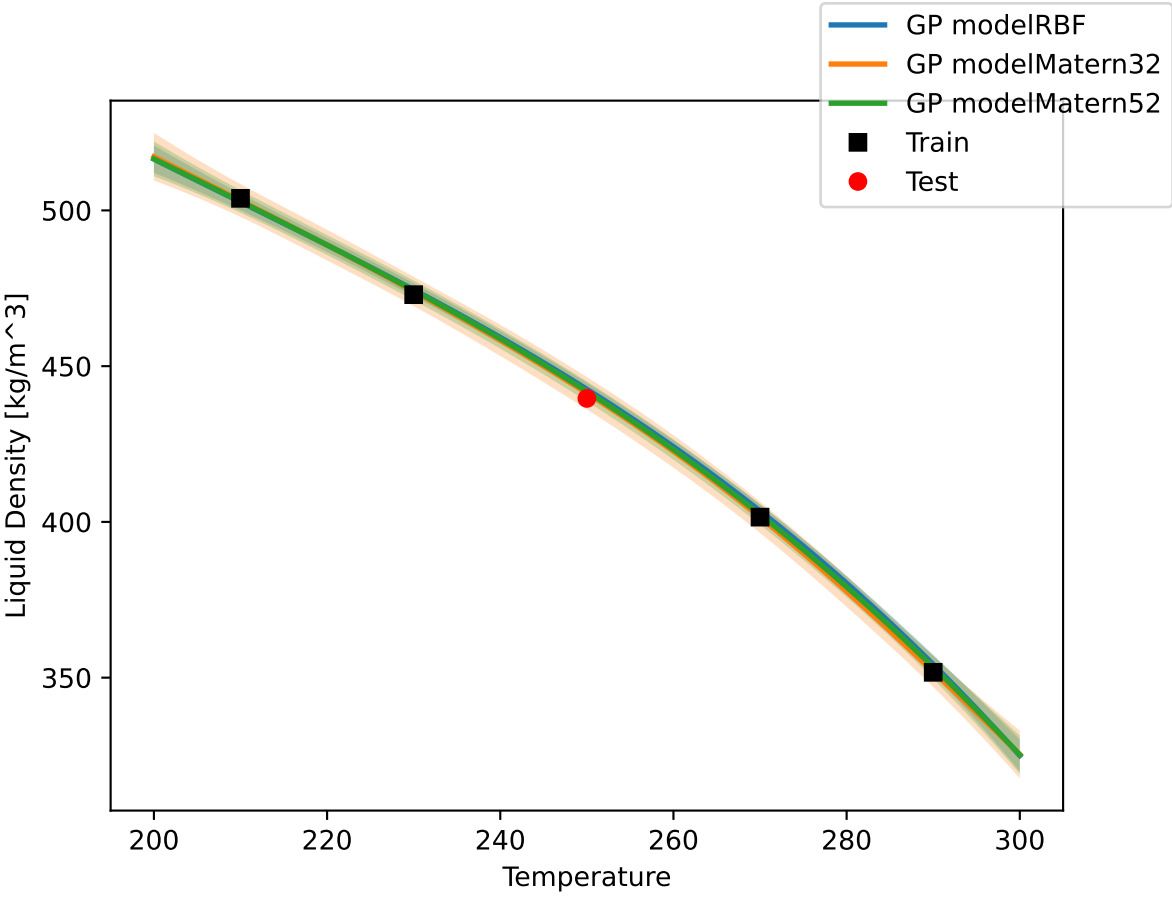
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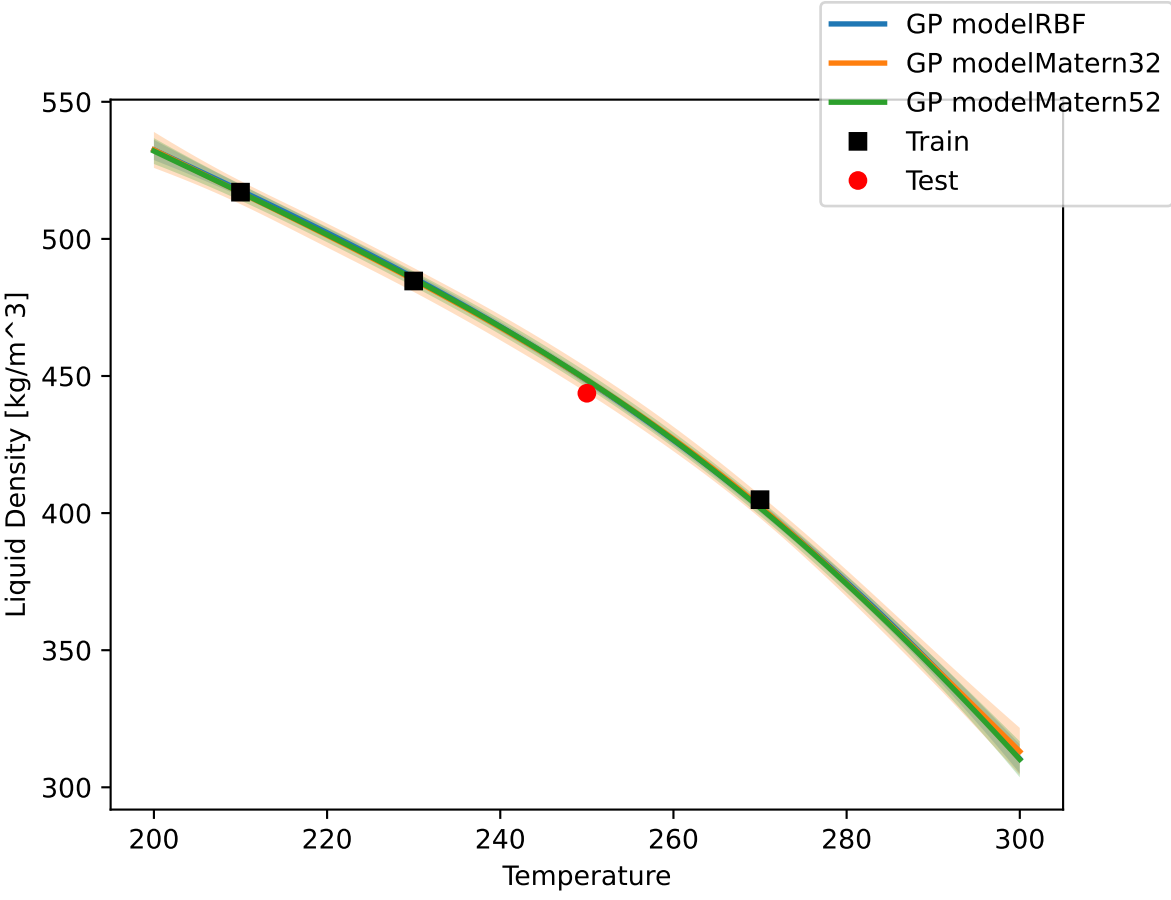
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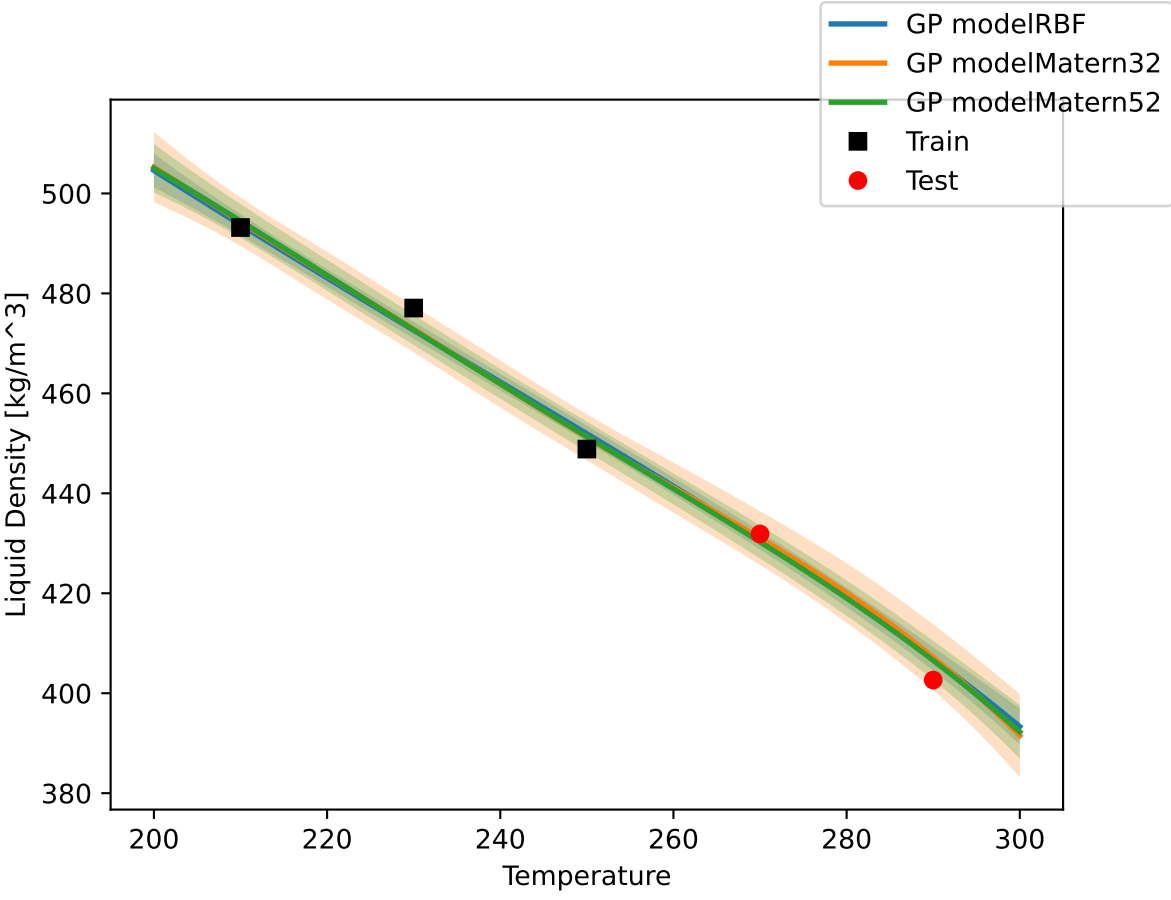
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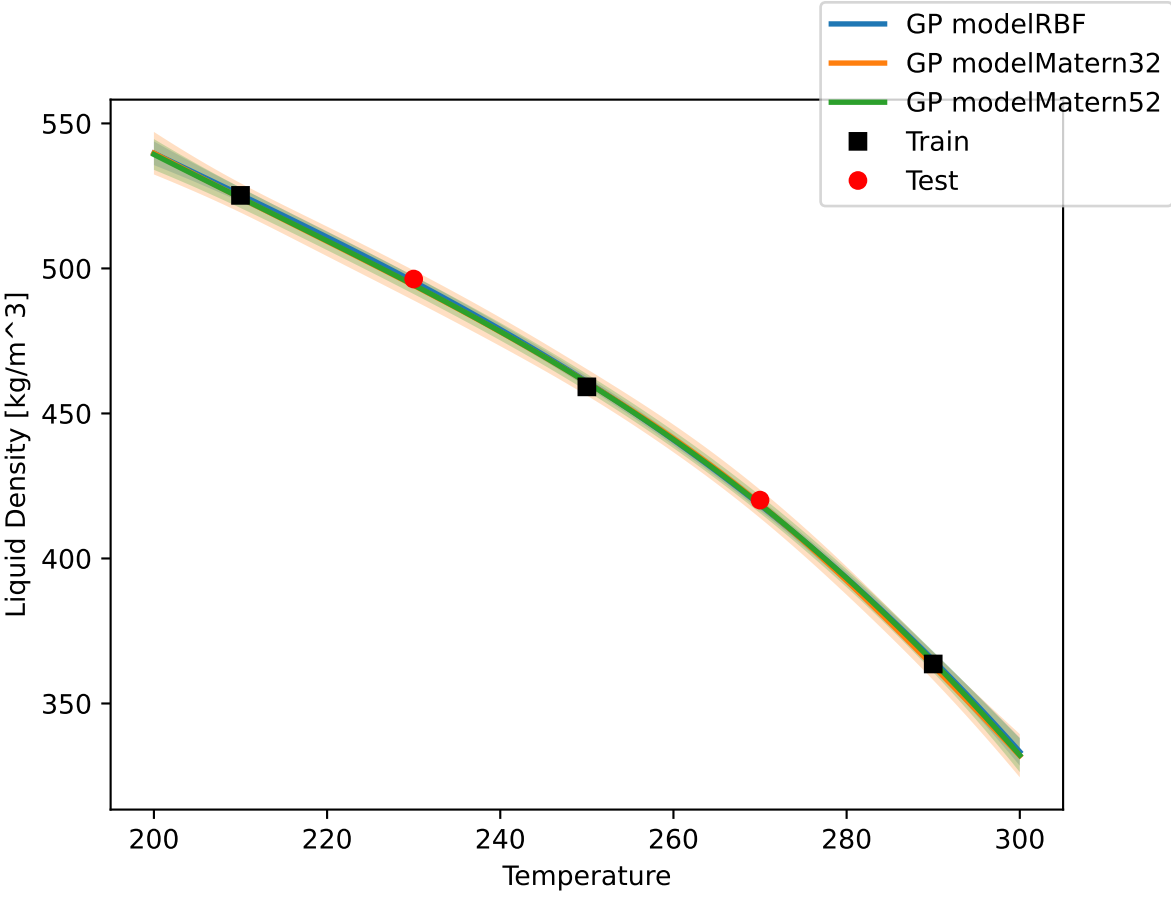
Temperature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GP modelMatern52
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Test
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350
Liquid Density [kg/m^3]
200
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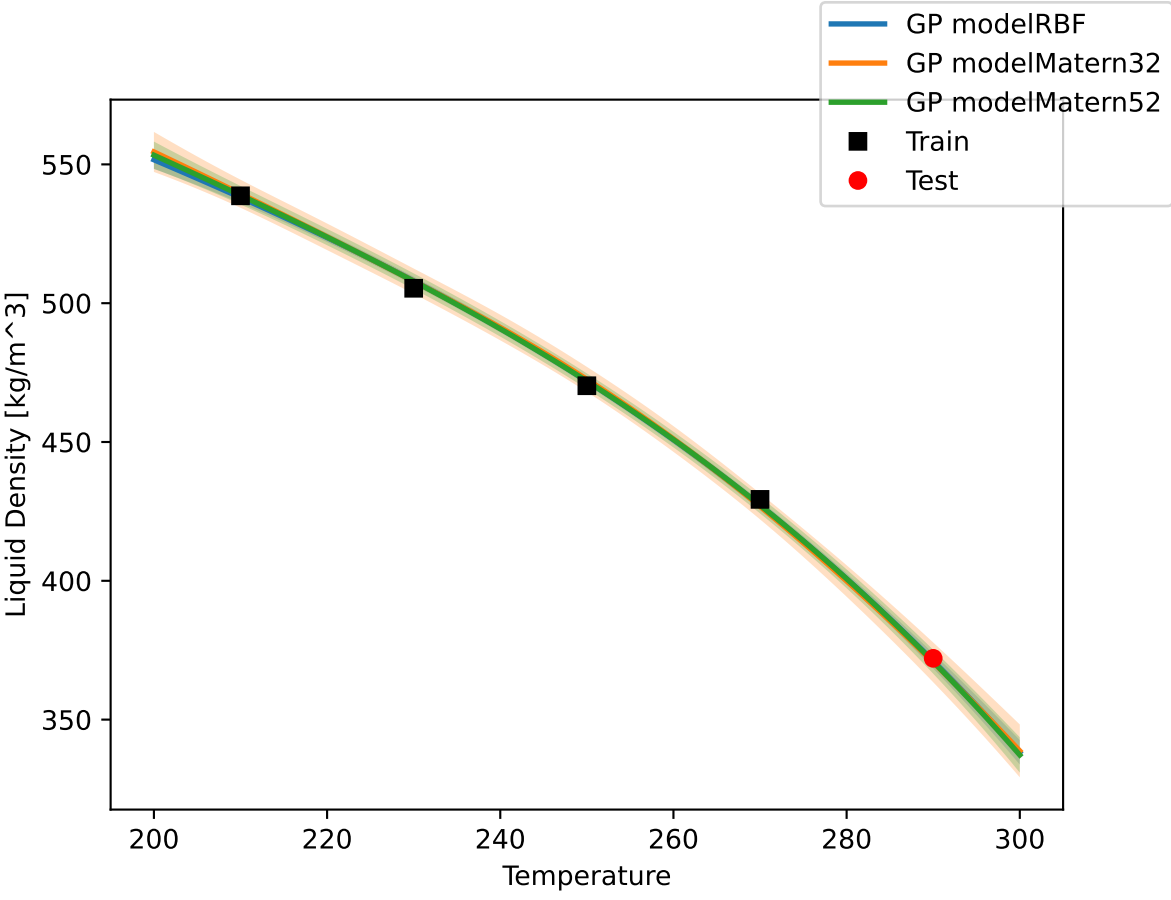
300
Temperature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Liquid Density [kg/m^3]
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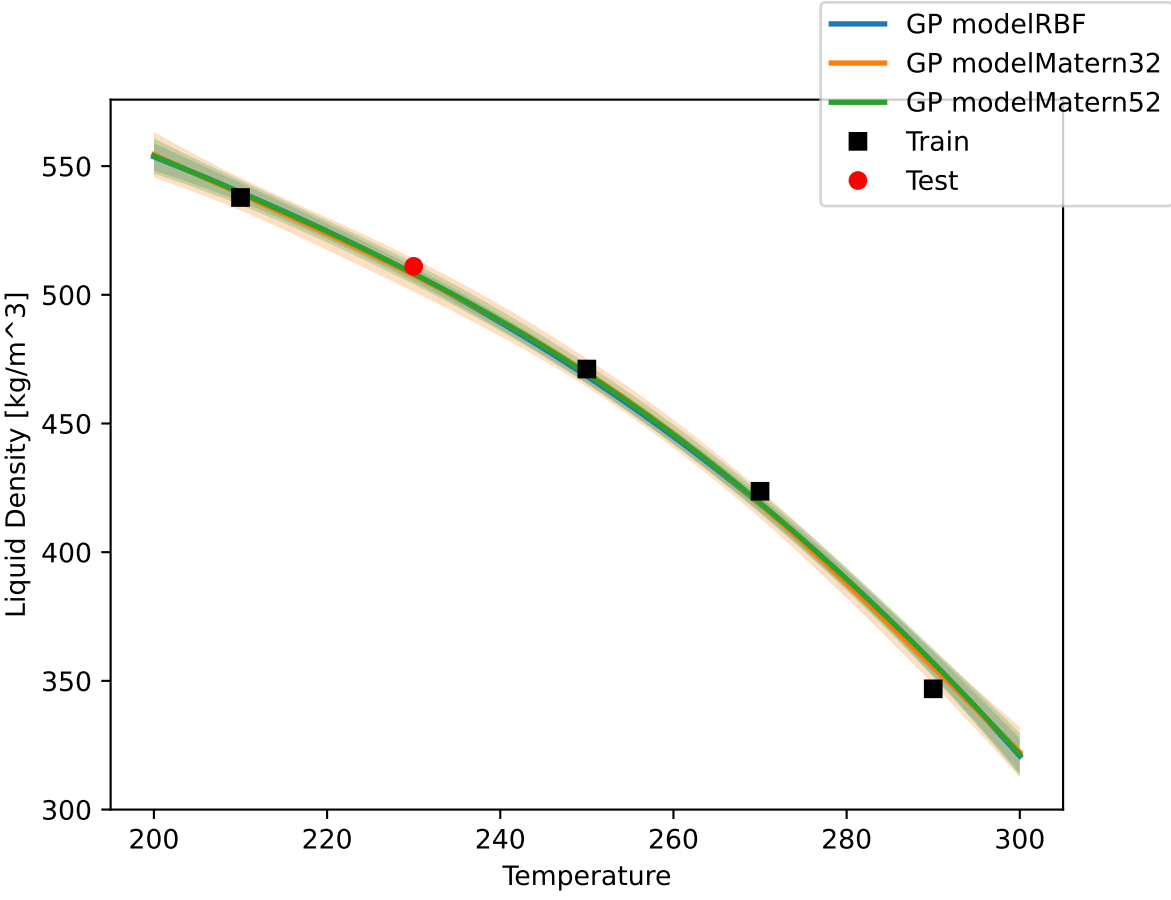
300
Temperature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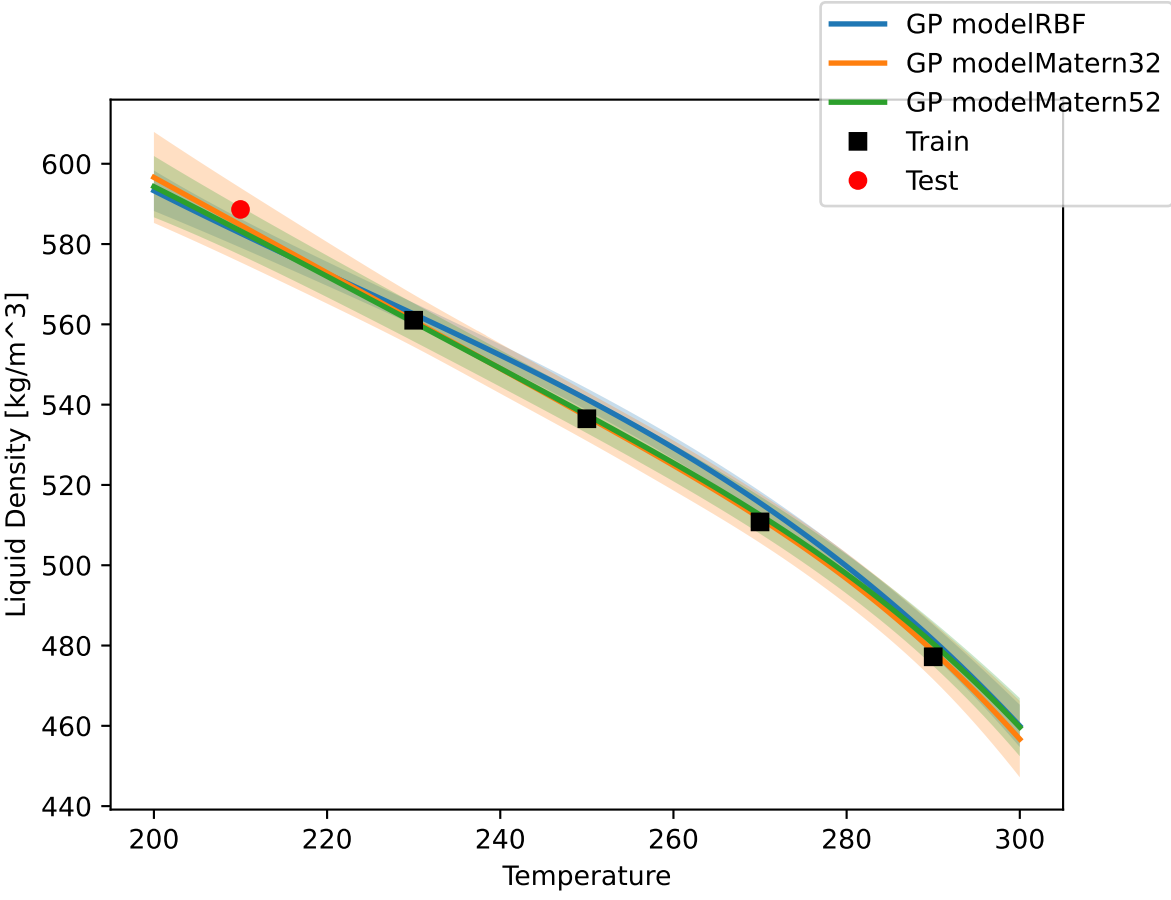
Temperature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Test
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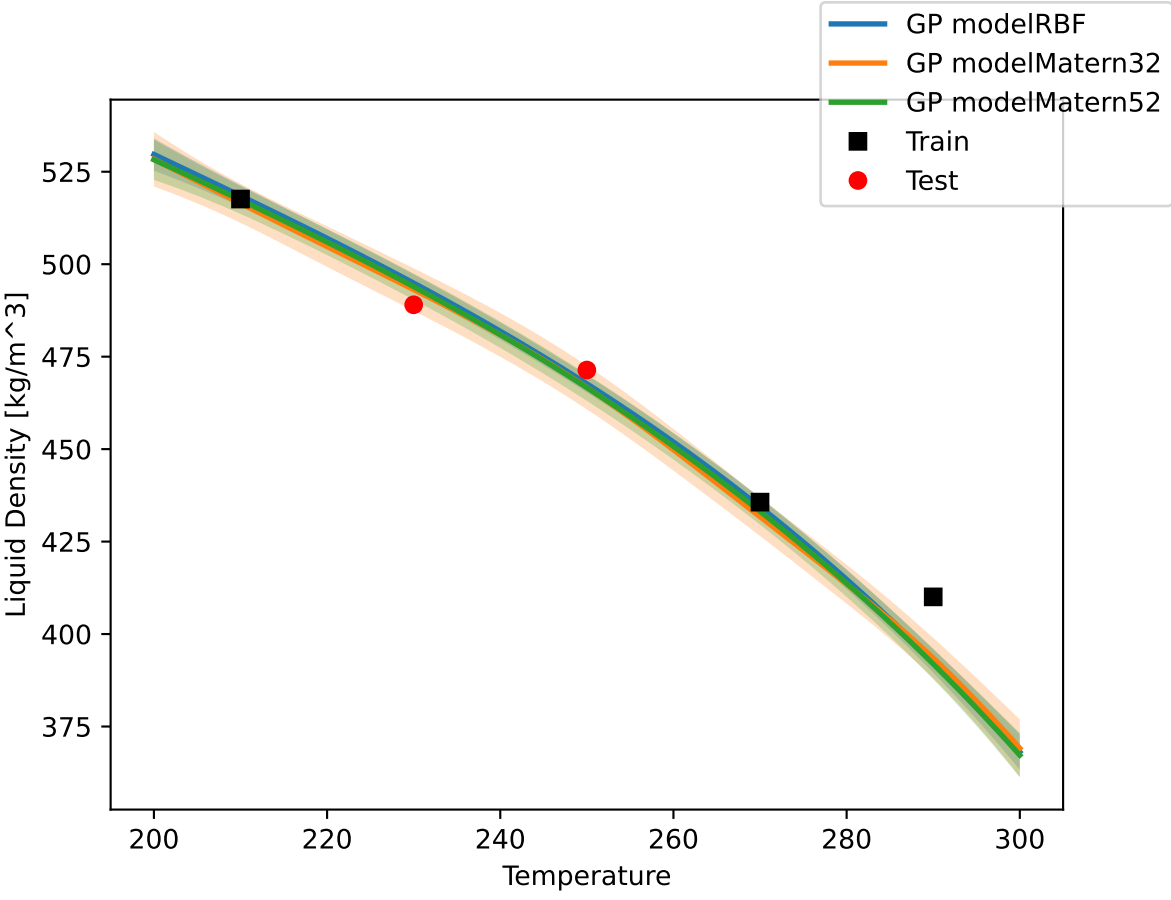
Temperature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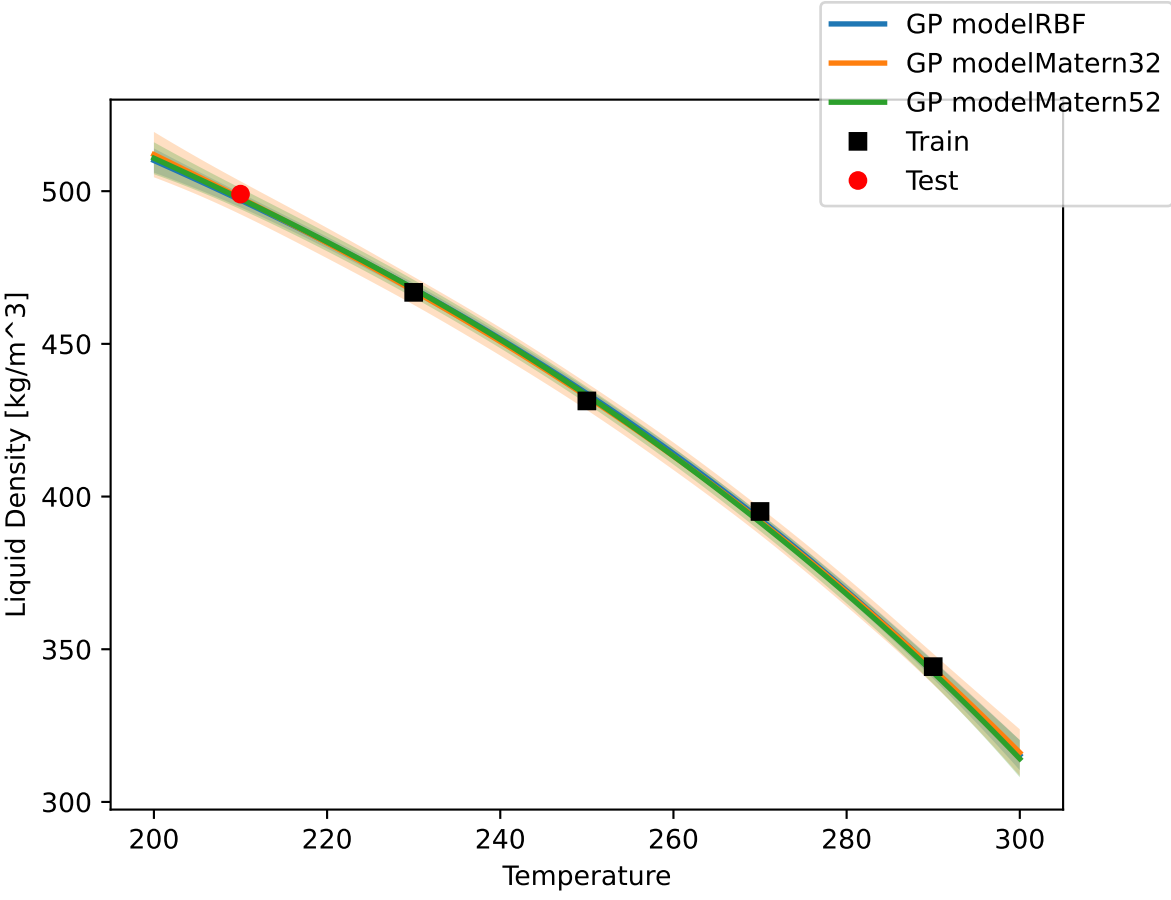
300
Temperature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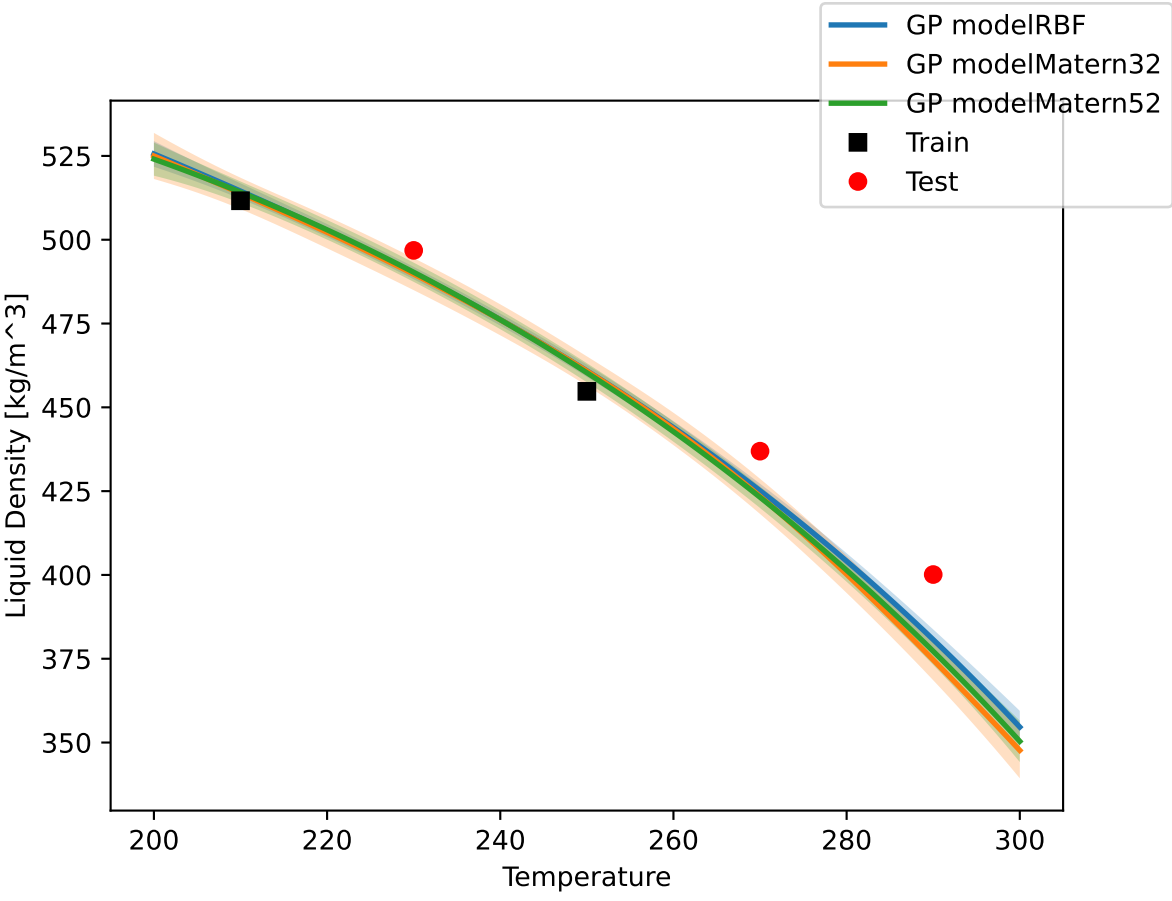
300
Temperature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Liquid Density [kg/m^3]
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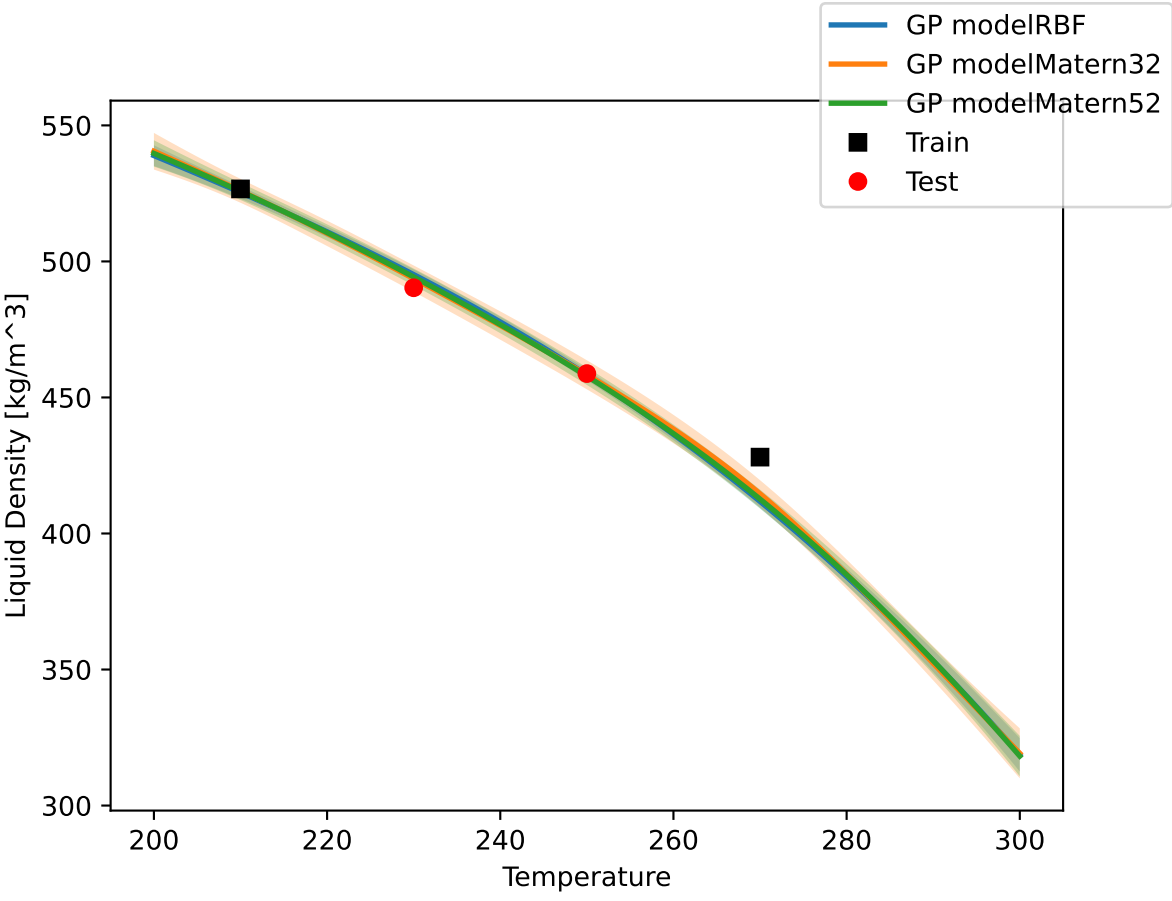
Temperature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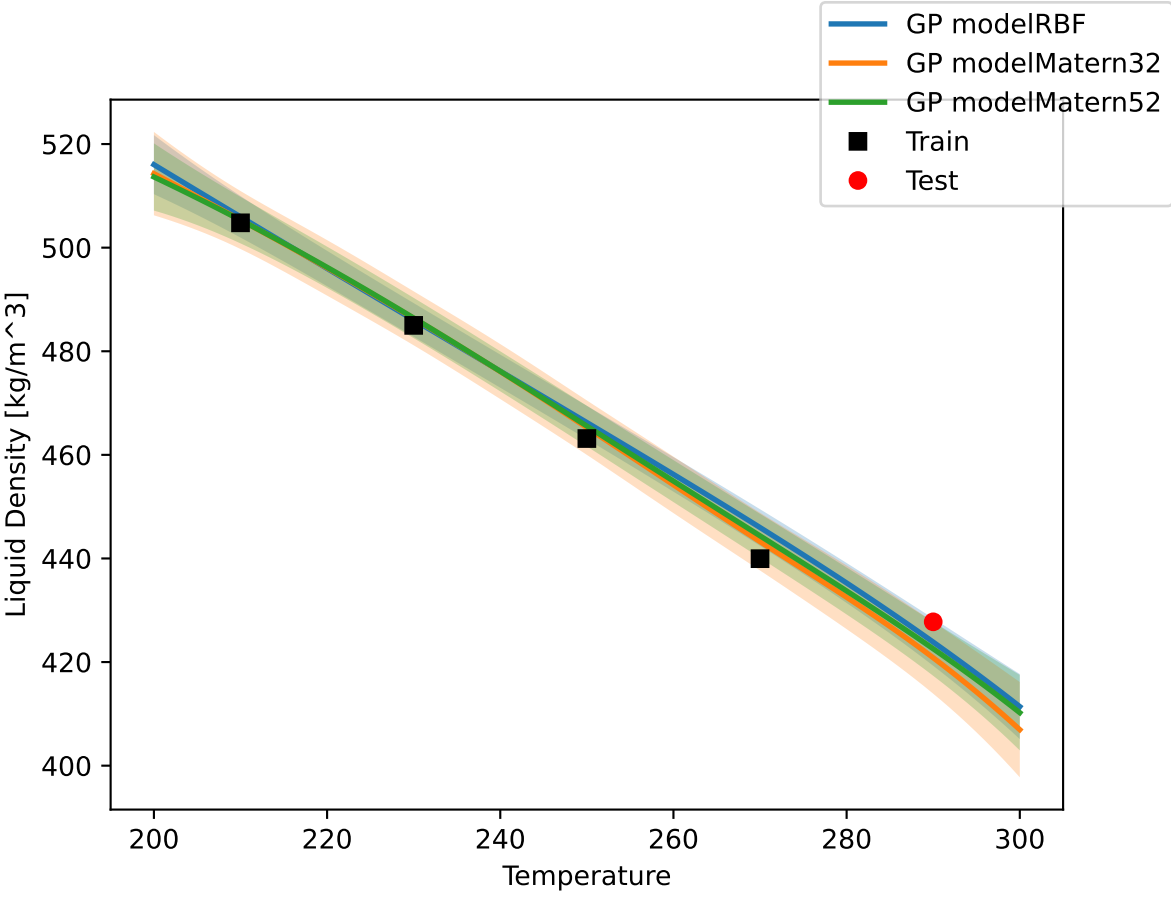
Temperature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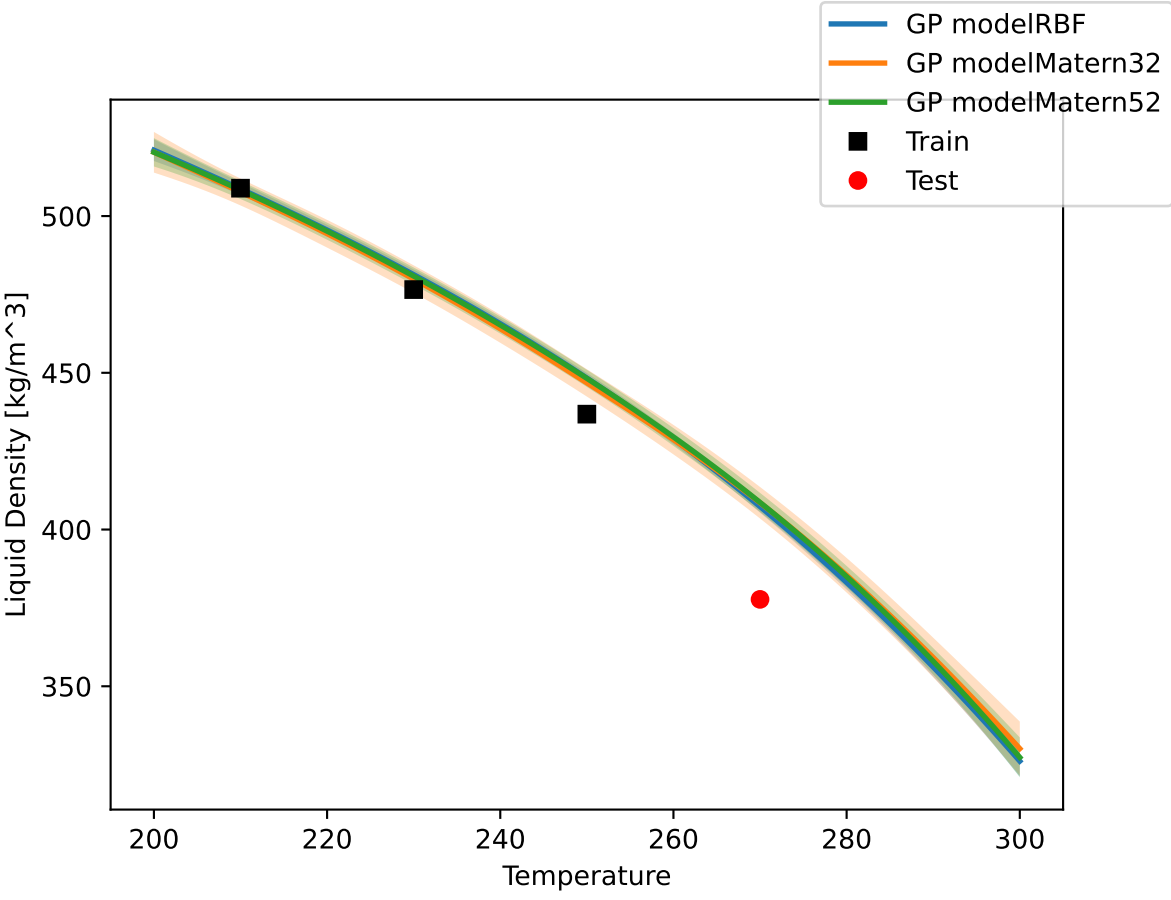
Temperature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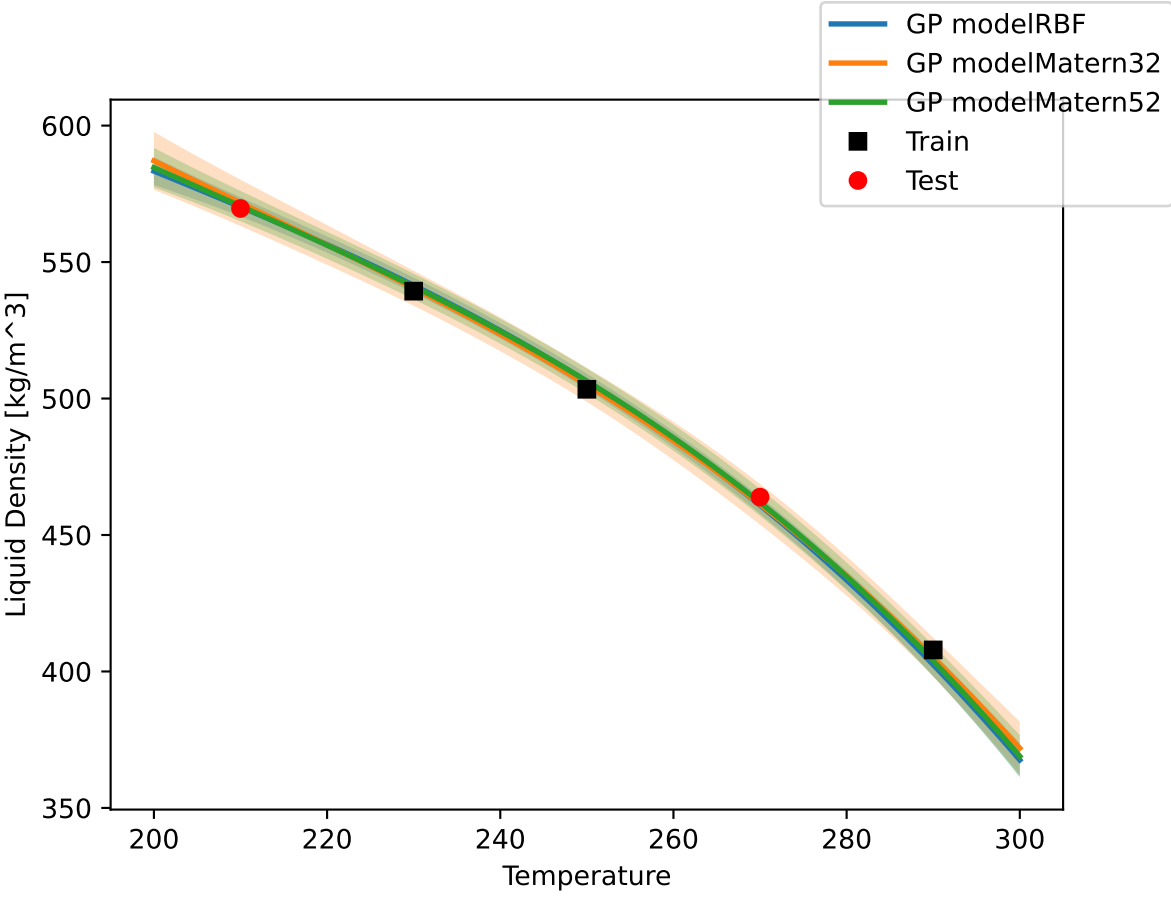
300
Temperature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Liquid Density [kg/m^3]
Temperature
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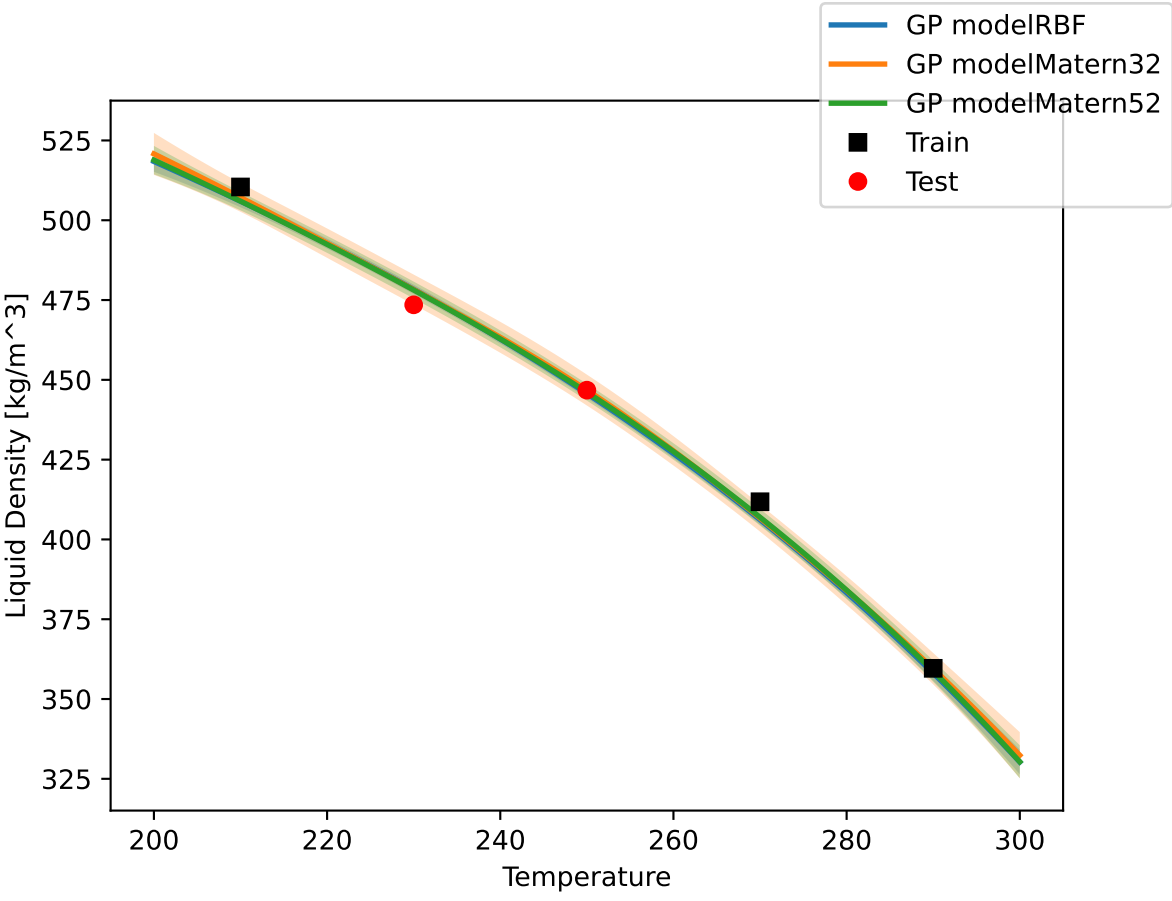
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Train
Test
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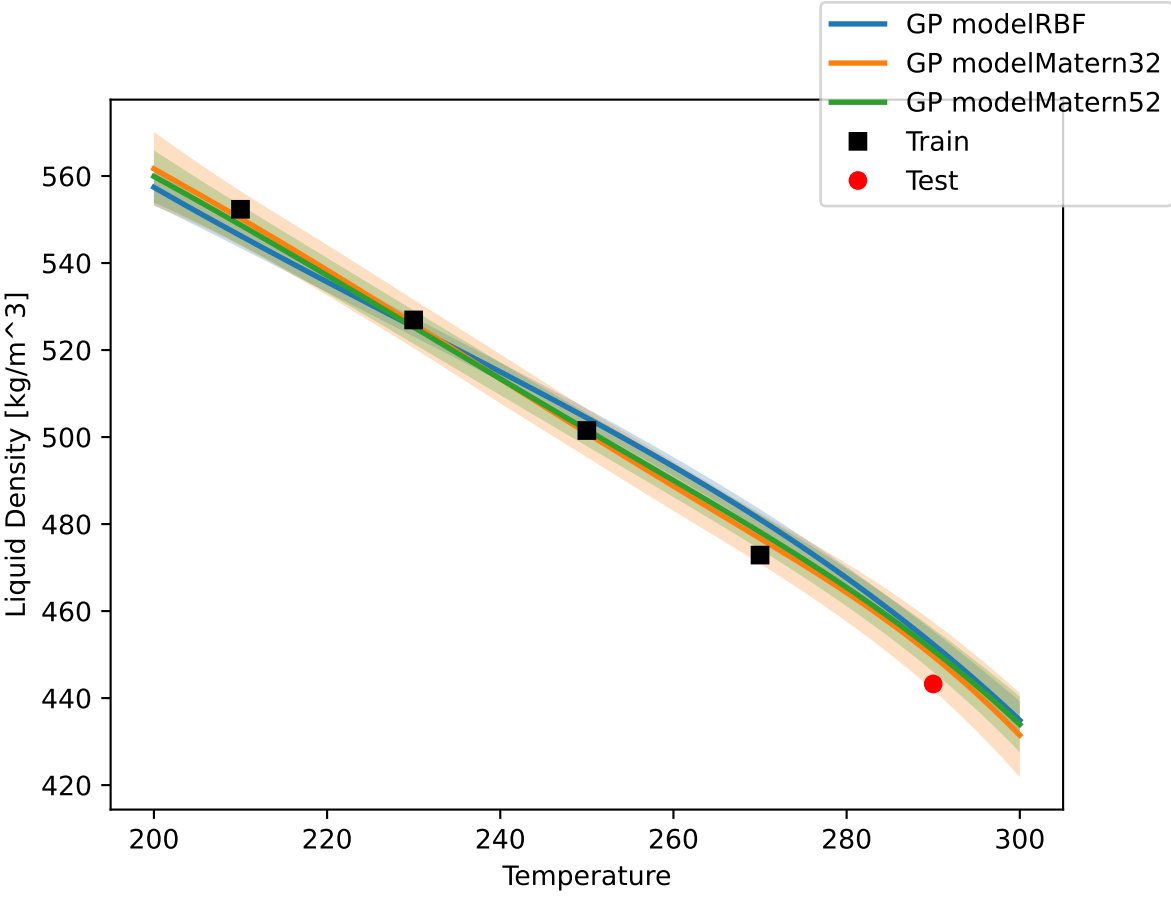
300
Temperature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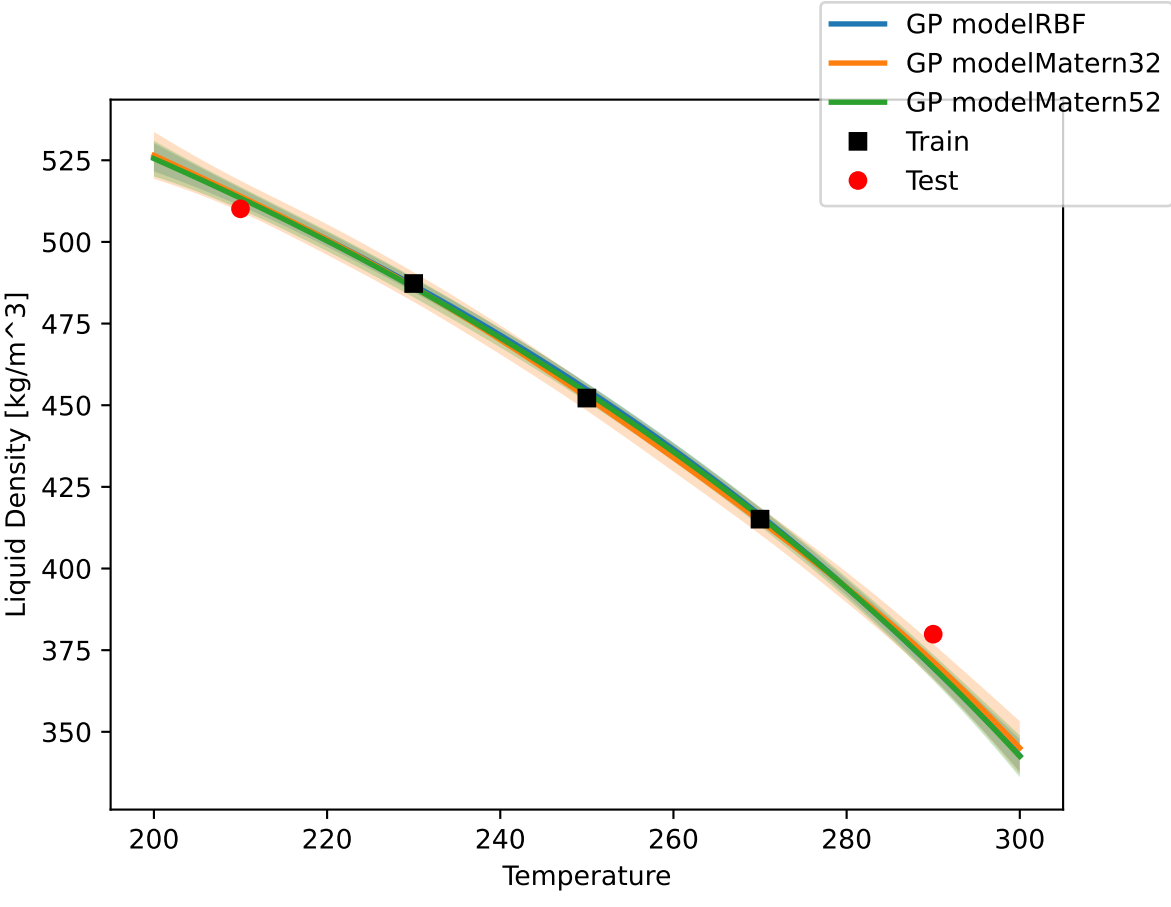
Temperature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Train
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350
Liquid Density [kg/m^3]
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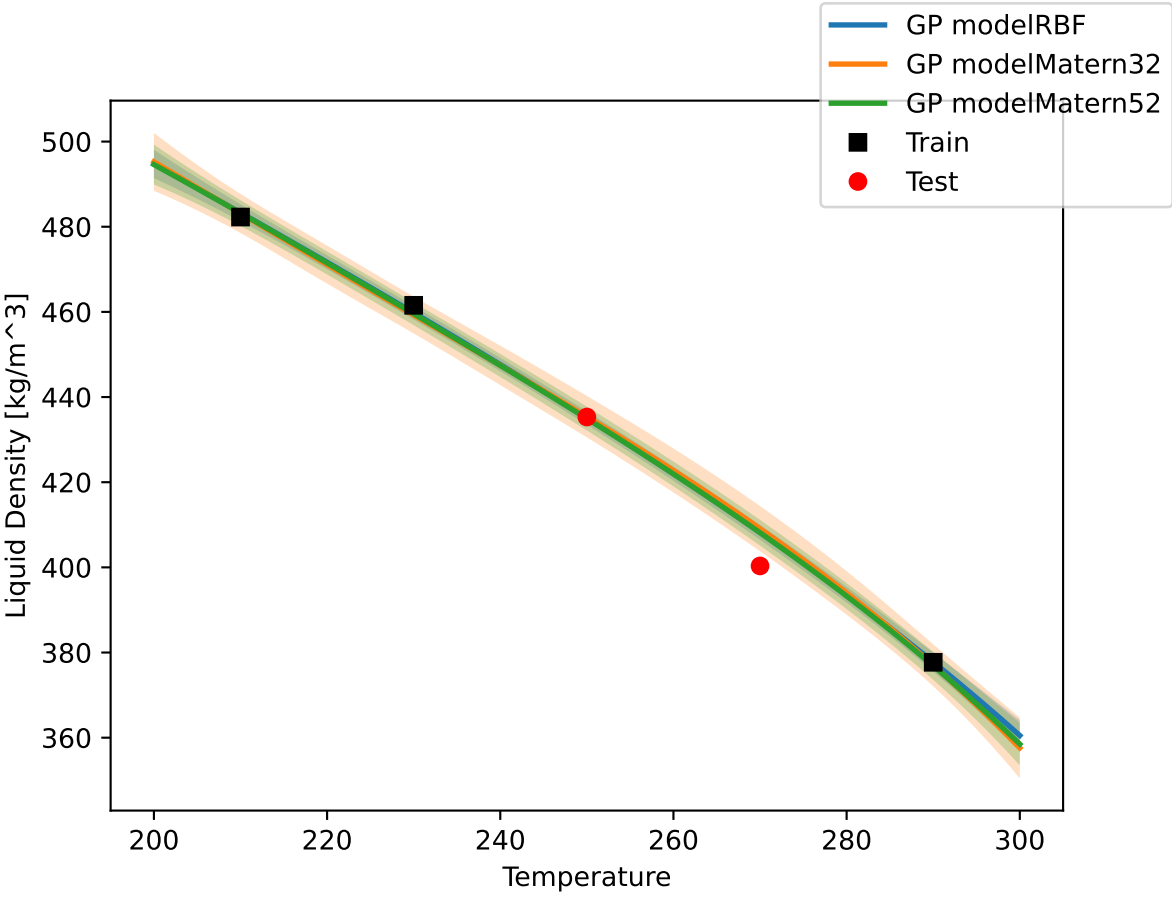
300
Temperature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Train
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Liquid Density [kg/m^3]
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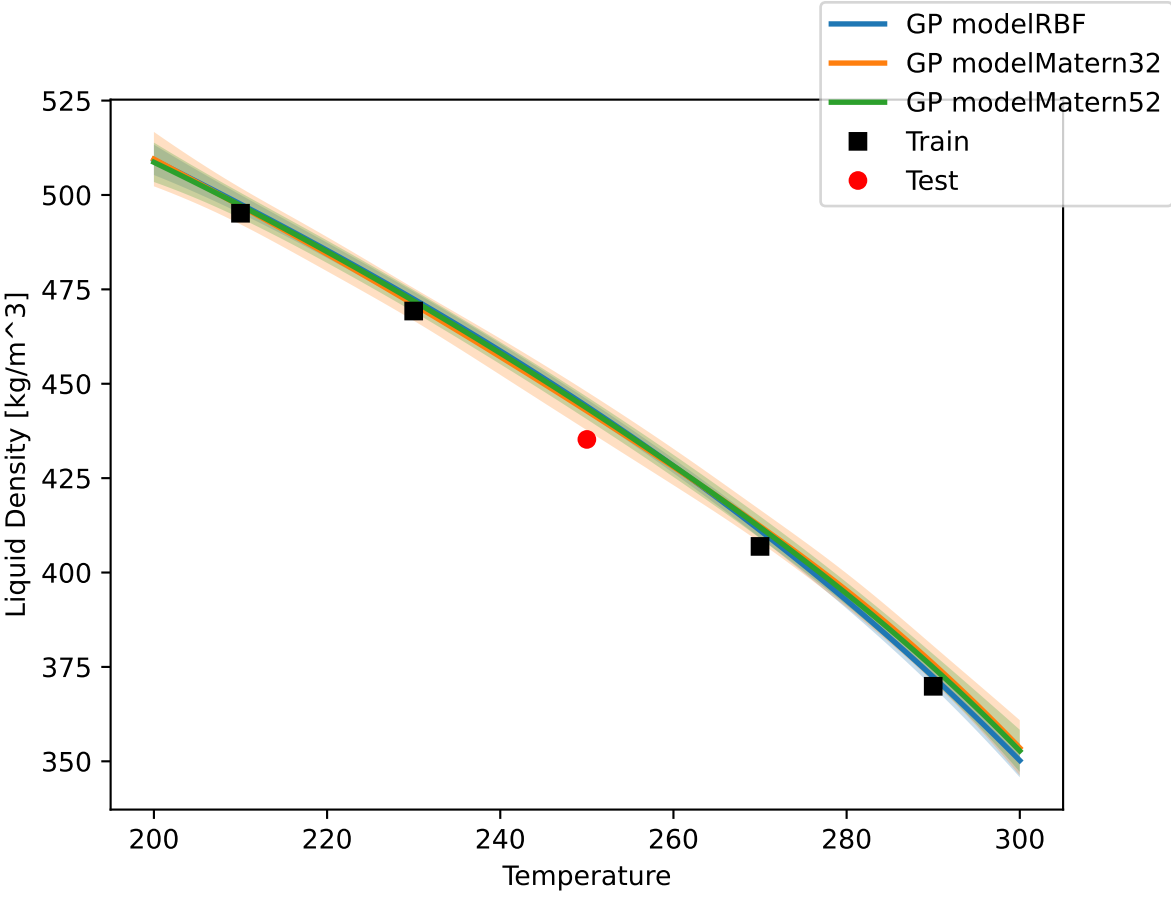
Temperature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Liquid Density [kg/m^3]
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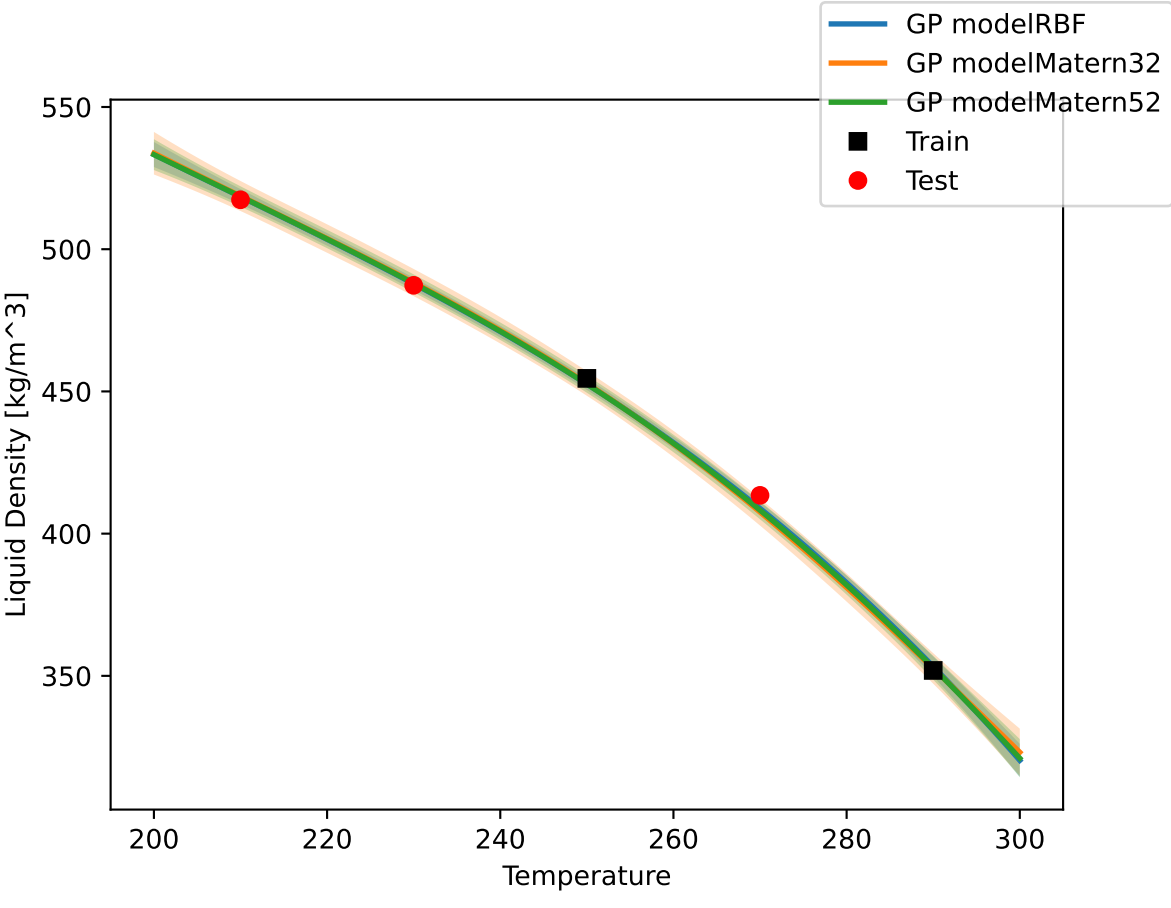
300
Temperature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Liquid Density [kg/m^3]
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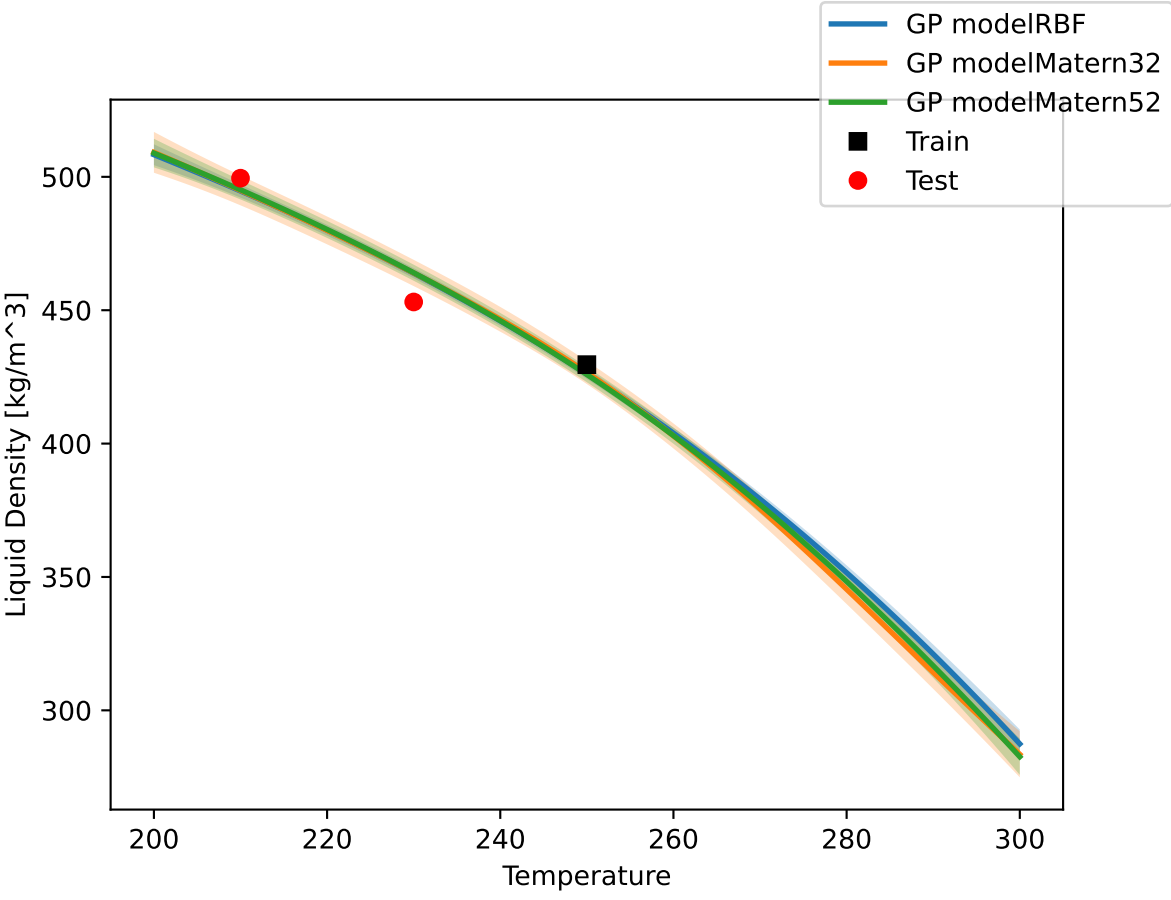
Temperature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Train
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Liquid Density [kg/m^3]
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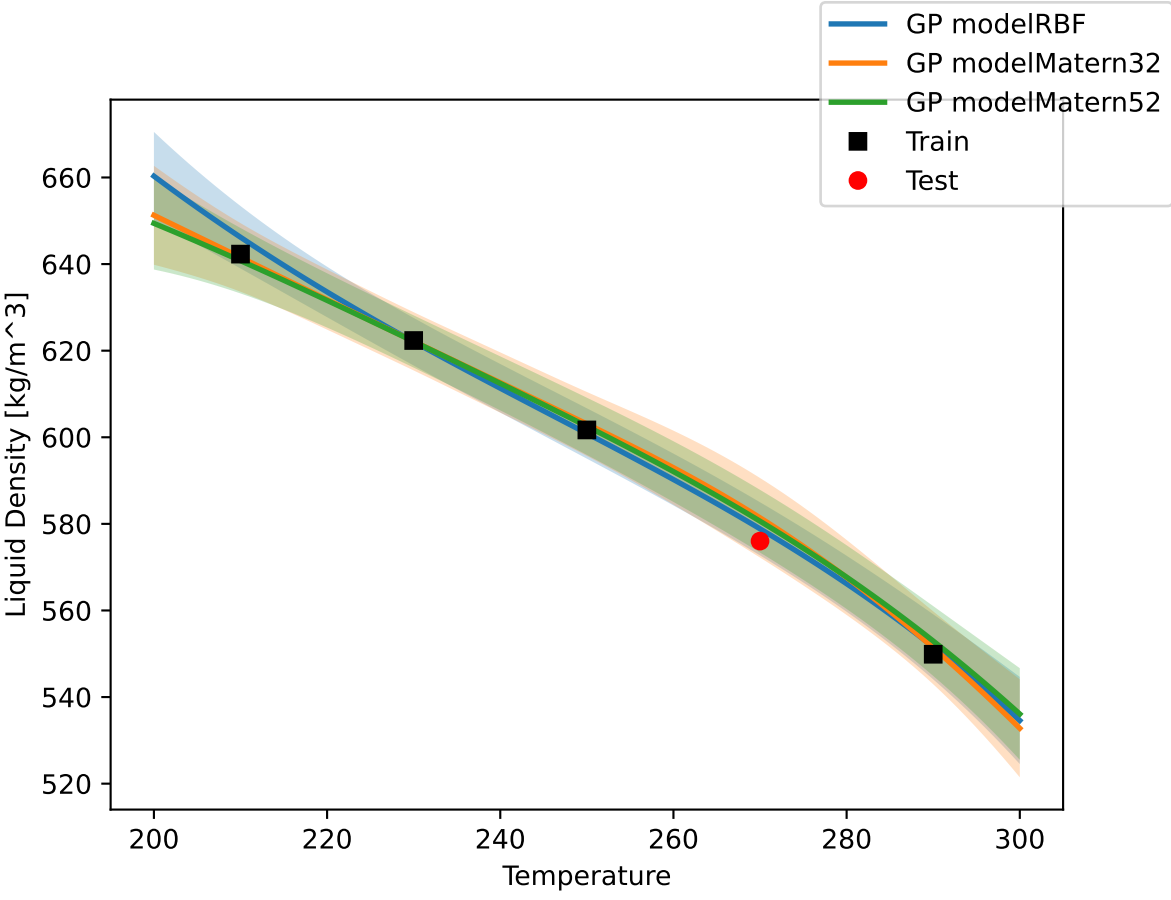
Temperature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Train
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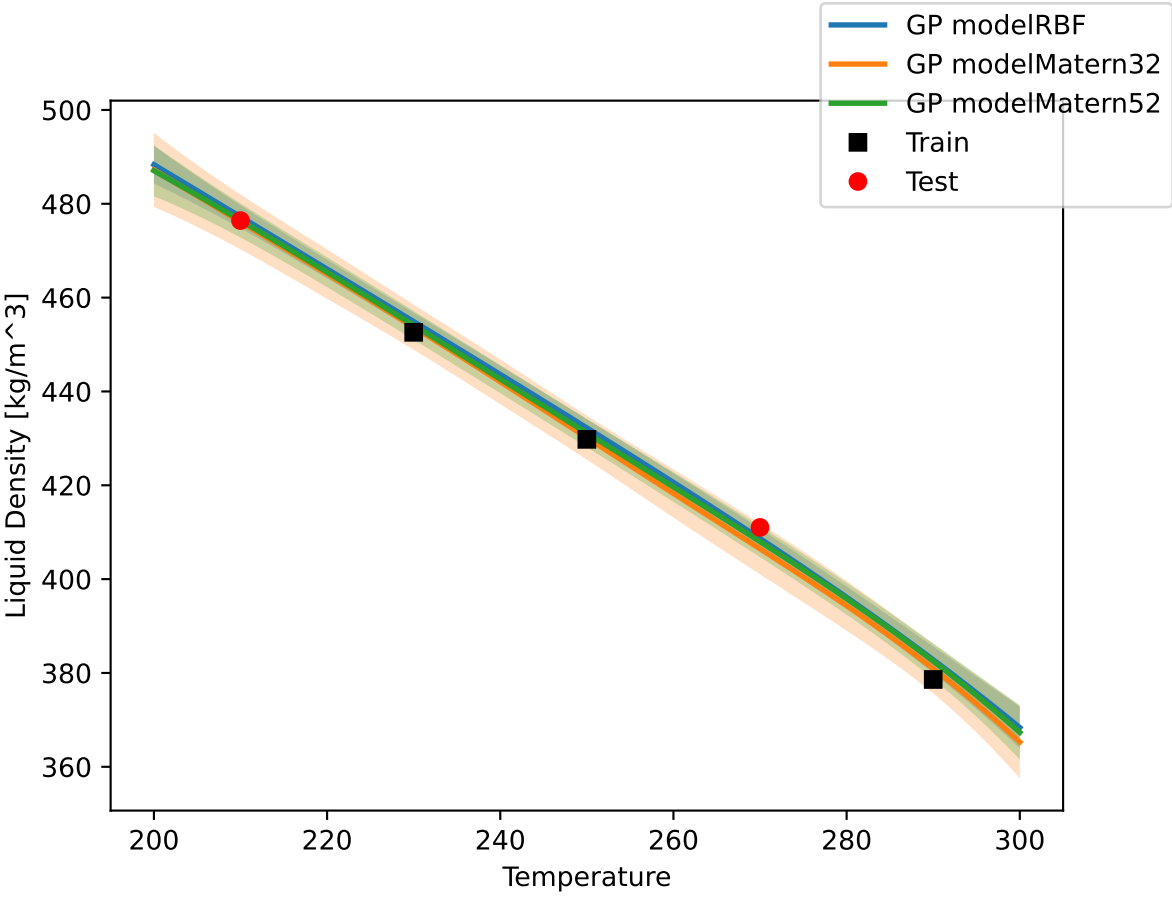
Temperature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Train
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Liquid Density [kg/m^3]
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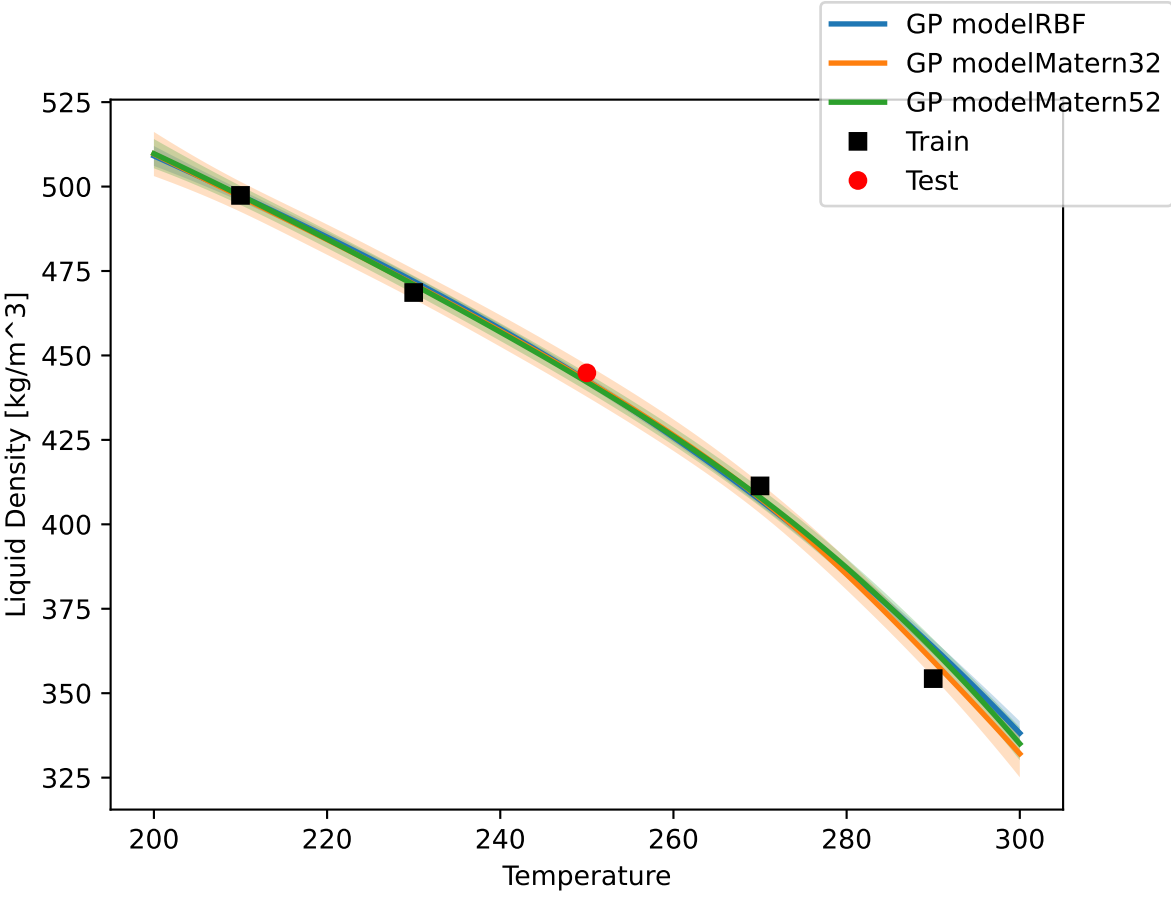
Temperature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Train
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Liquid Density [kg/m^3]
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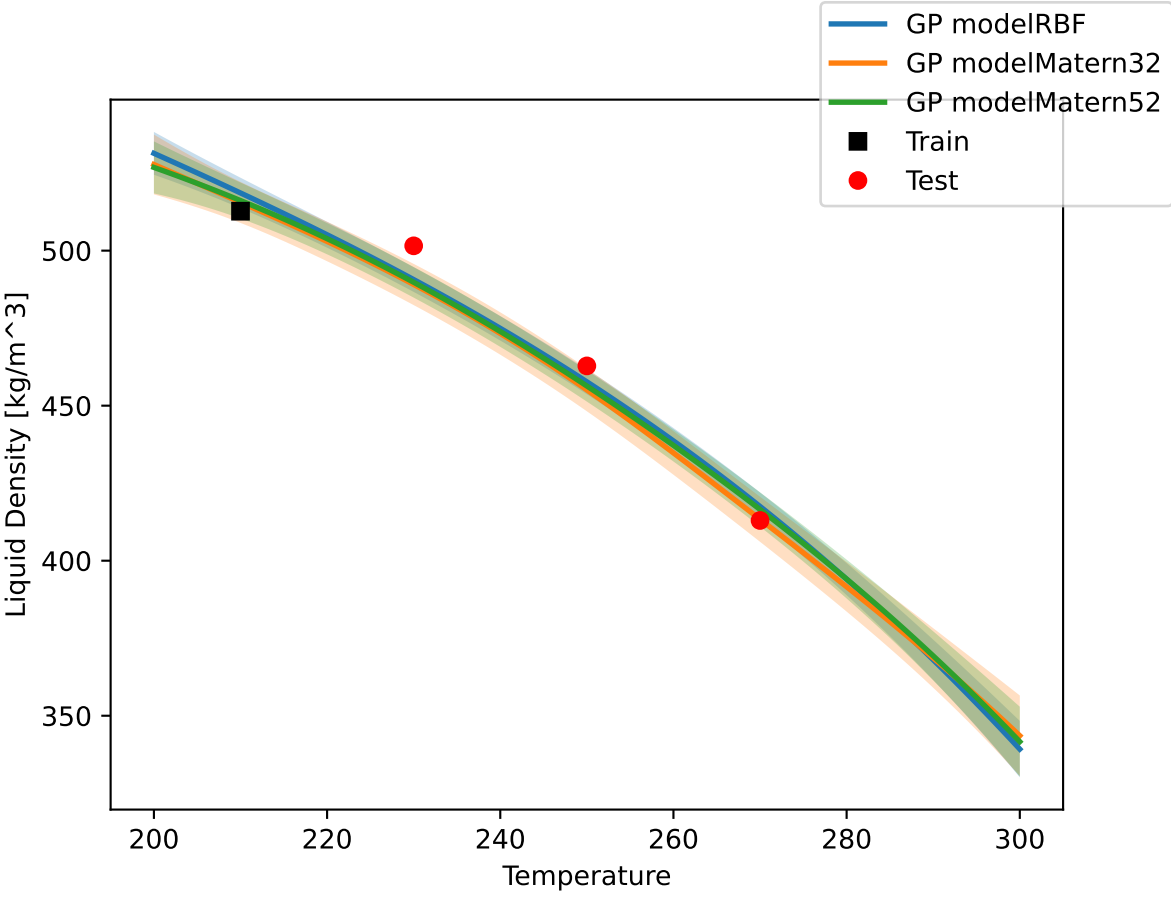
Temperature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Liquid Density [kg/m^3]
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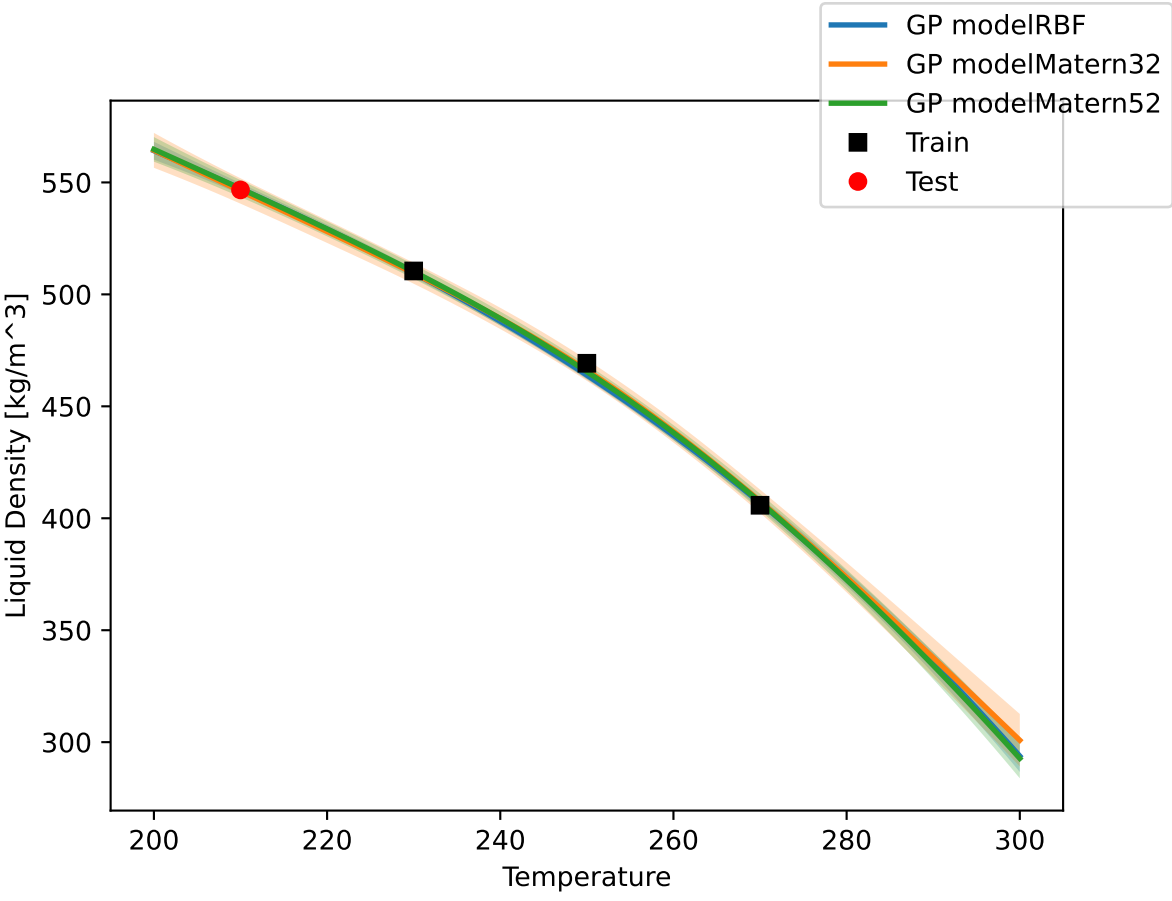
Temperature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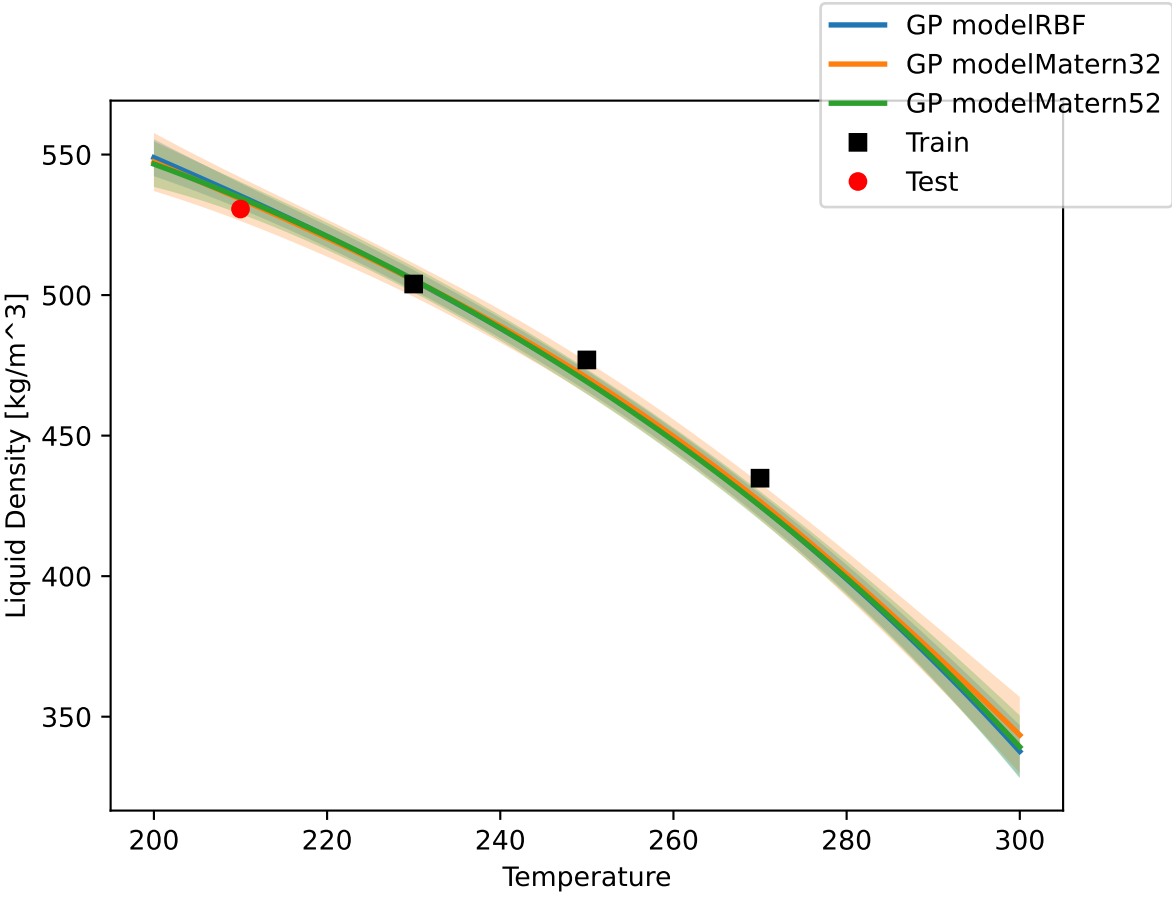
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Liquid Density [kg/m^3]
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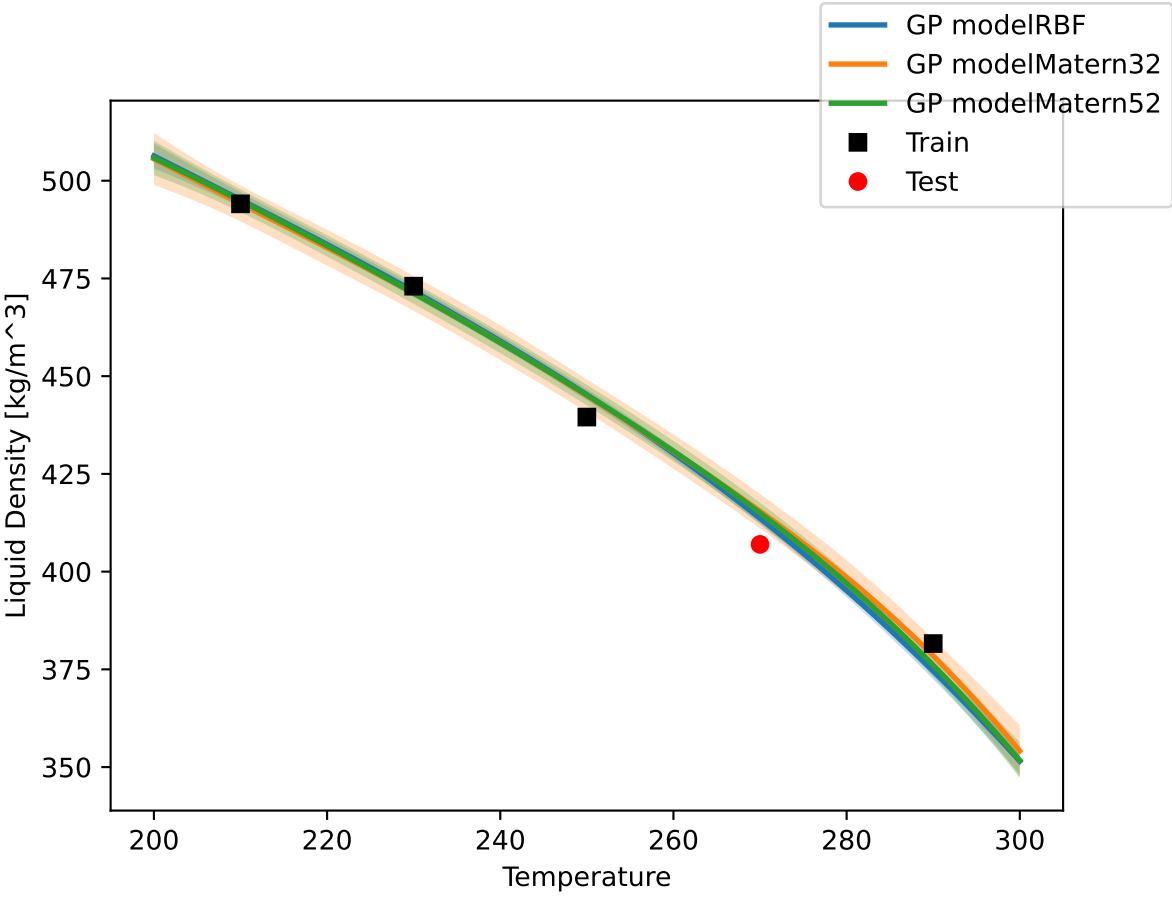
Temperature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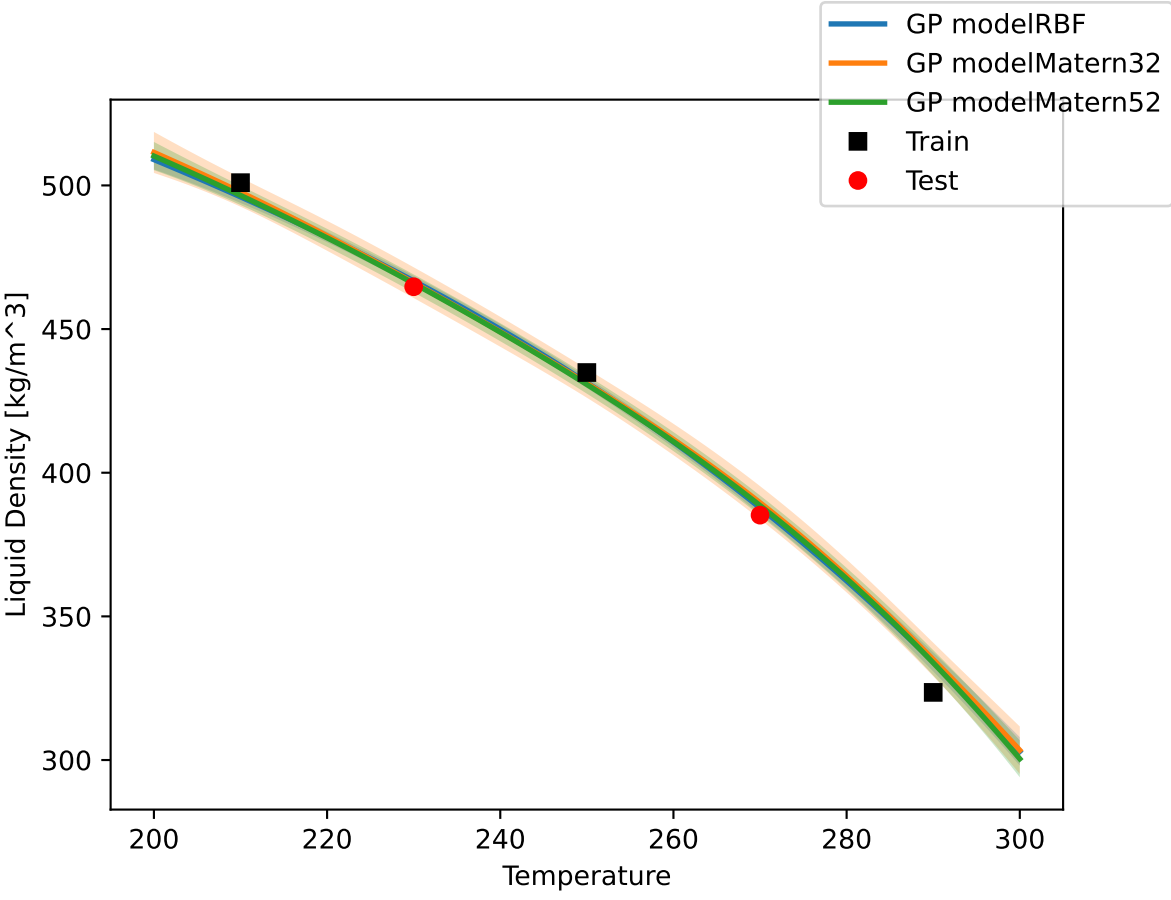
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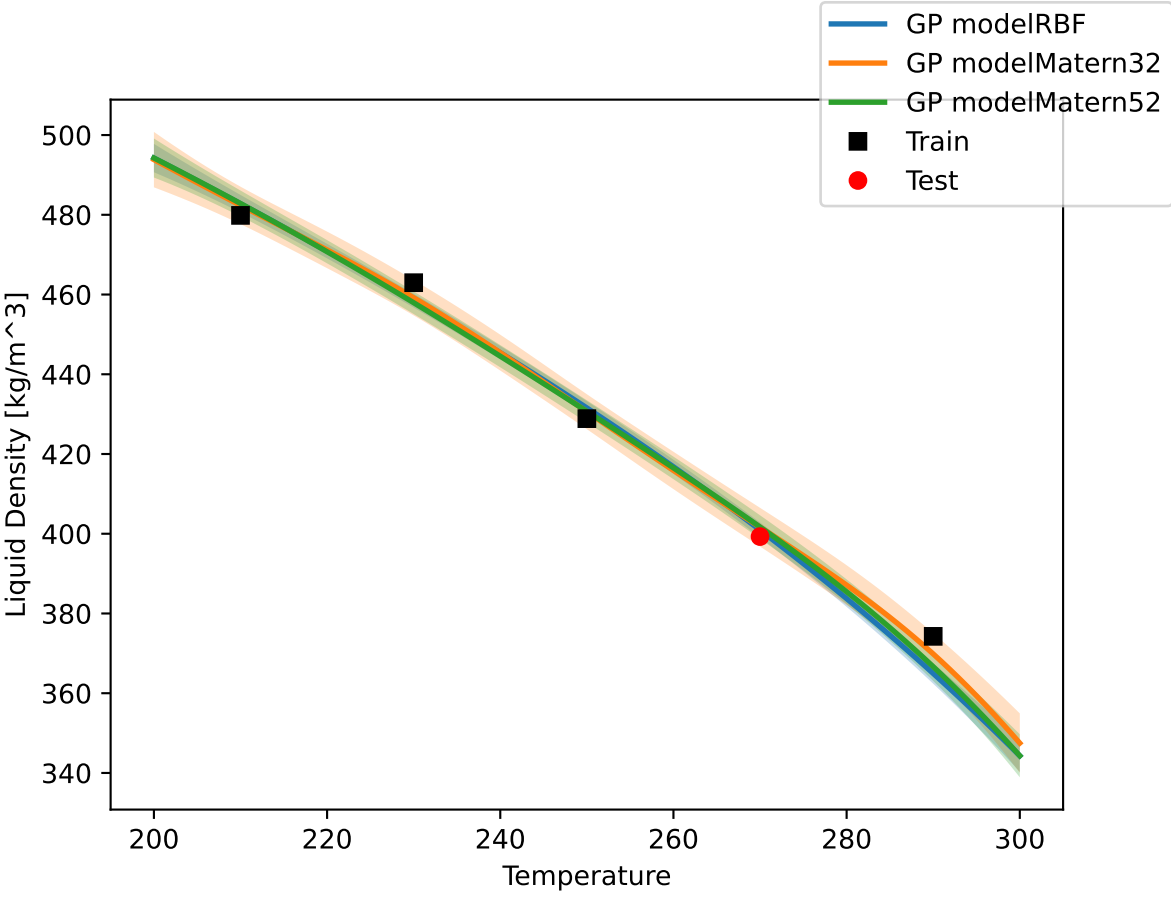
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Temperature
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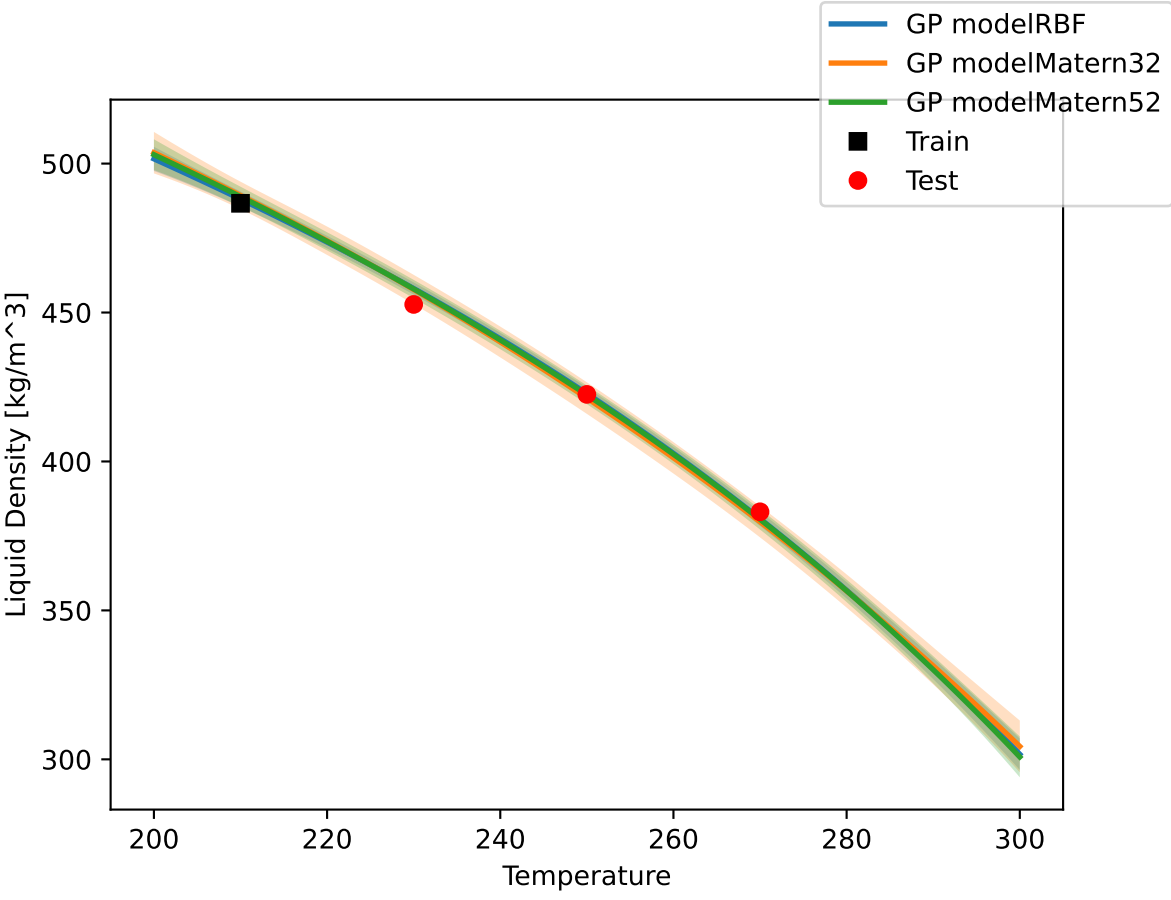
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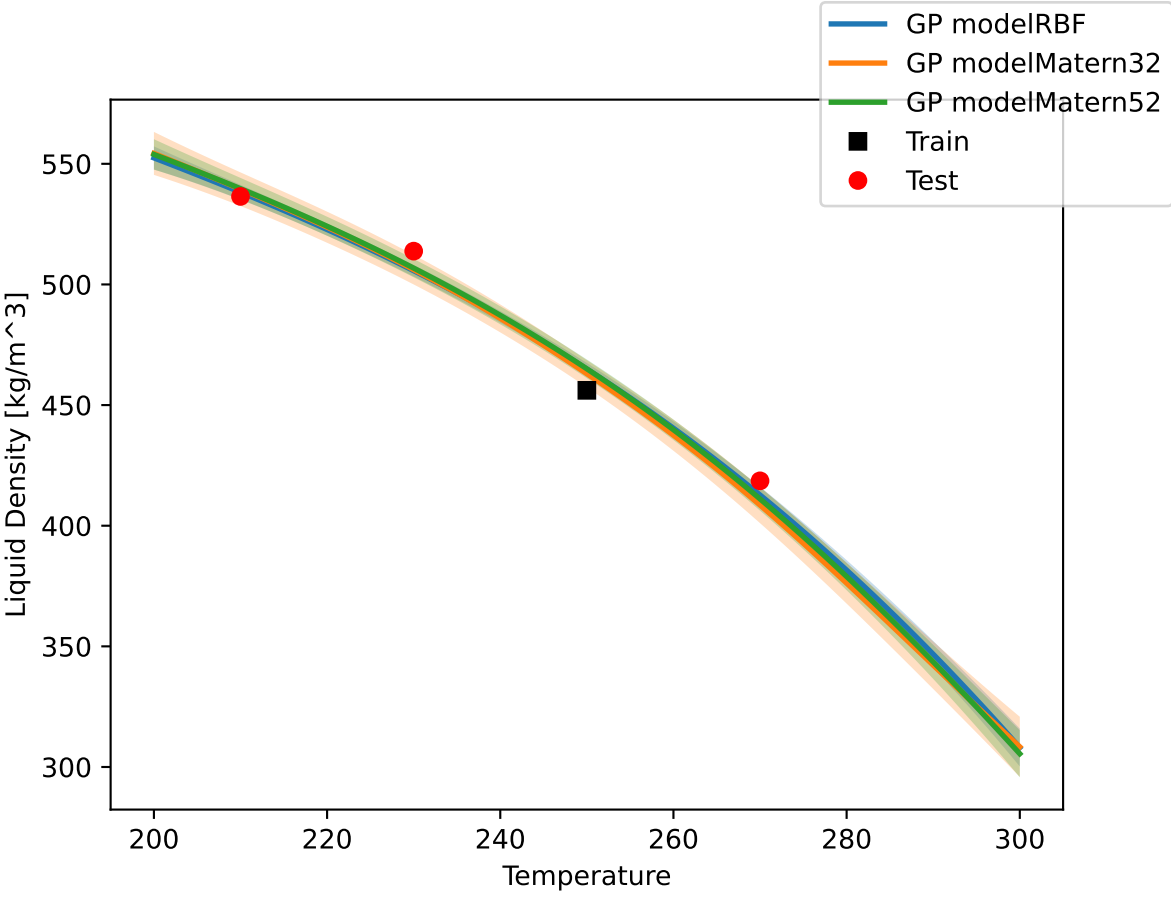
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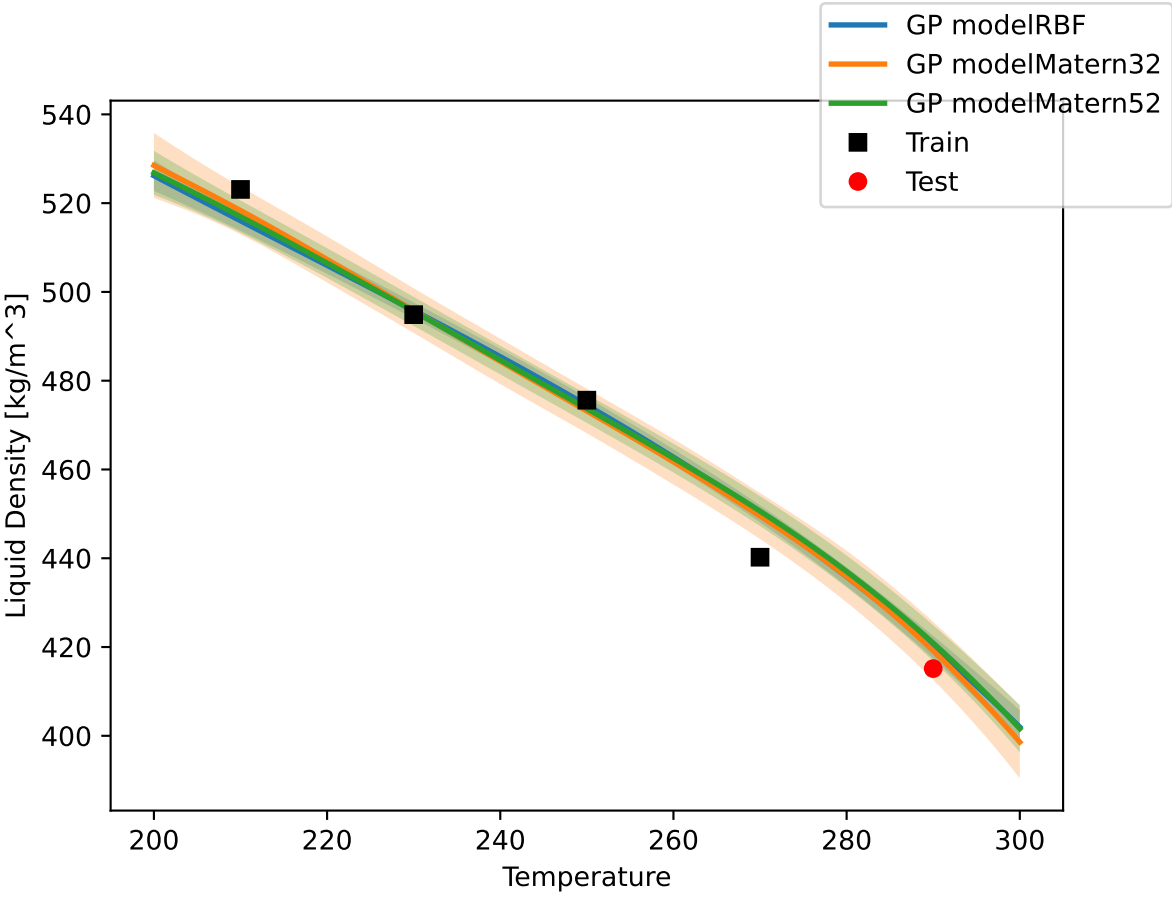
Temperature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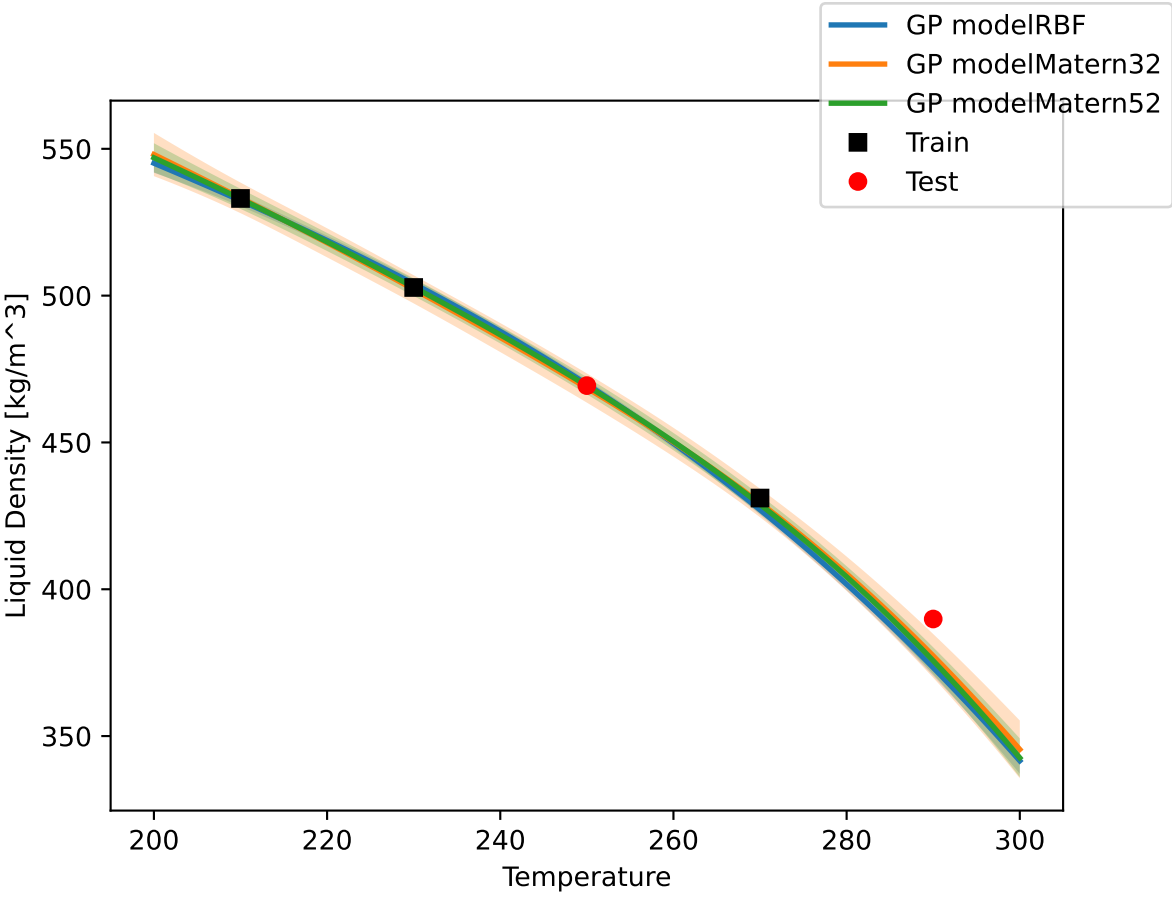
Temperature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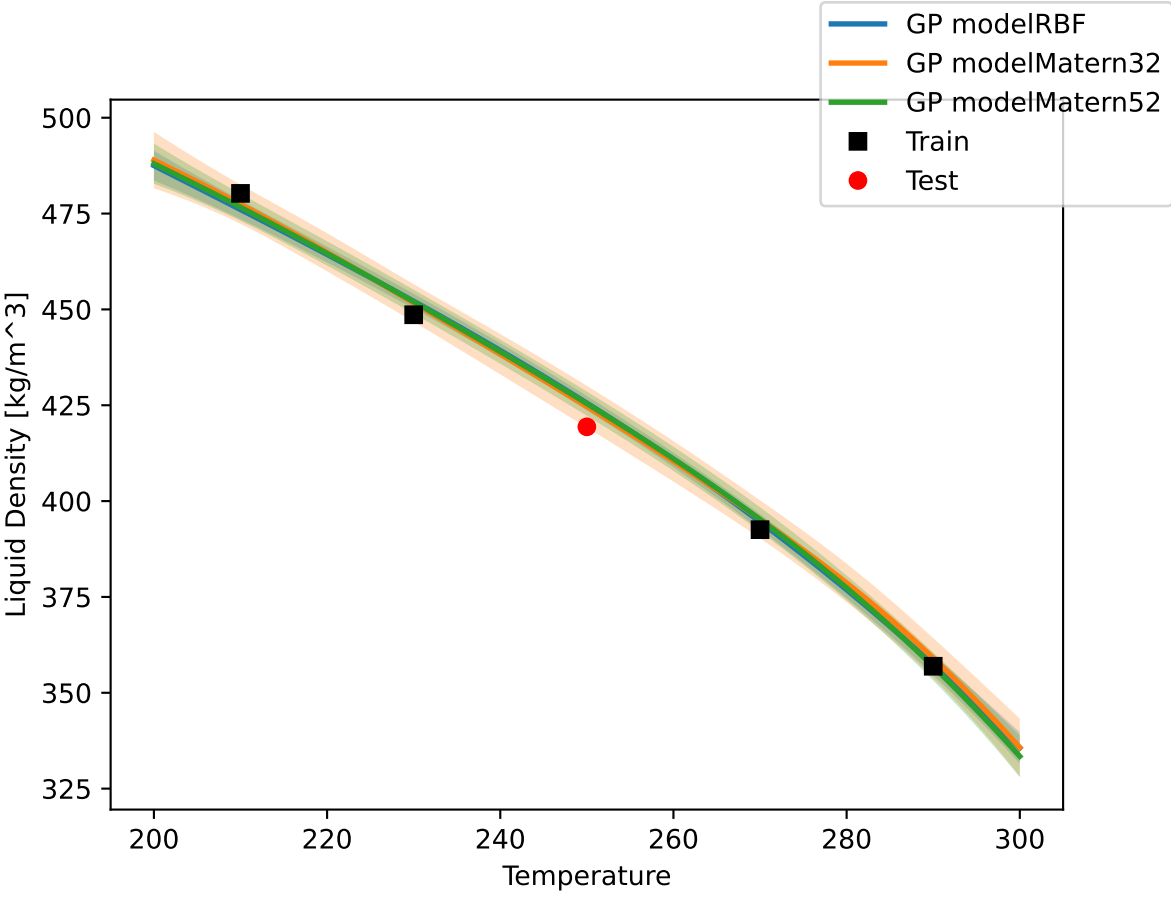
Temperature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Train
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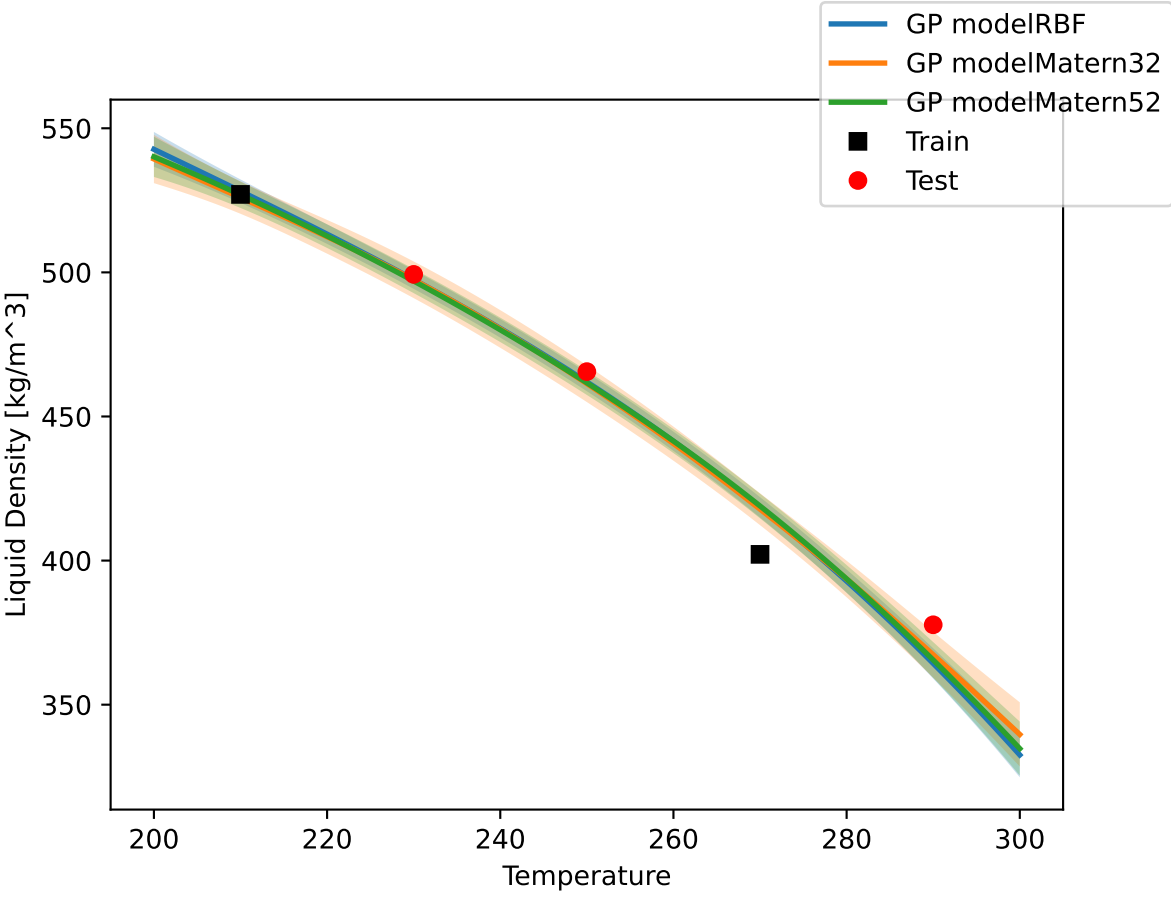
Temperature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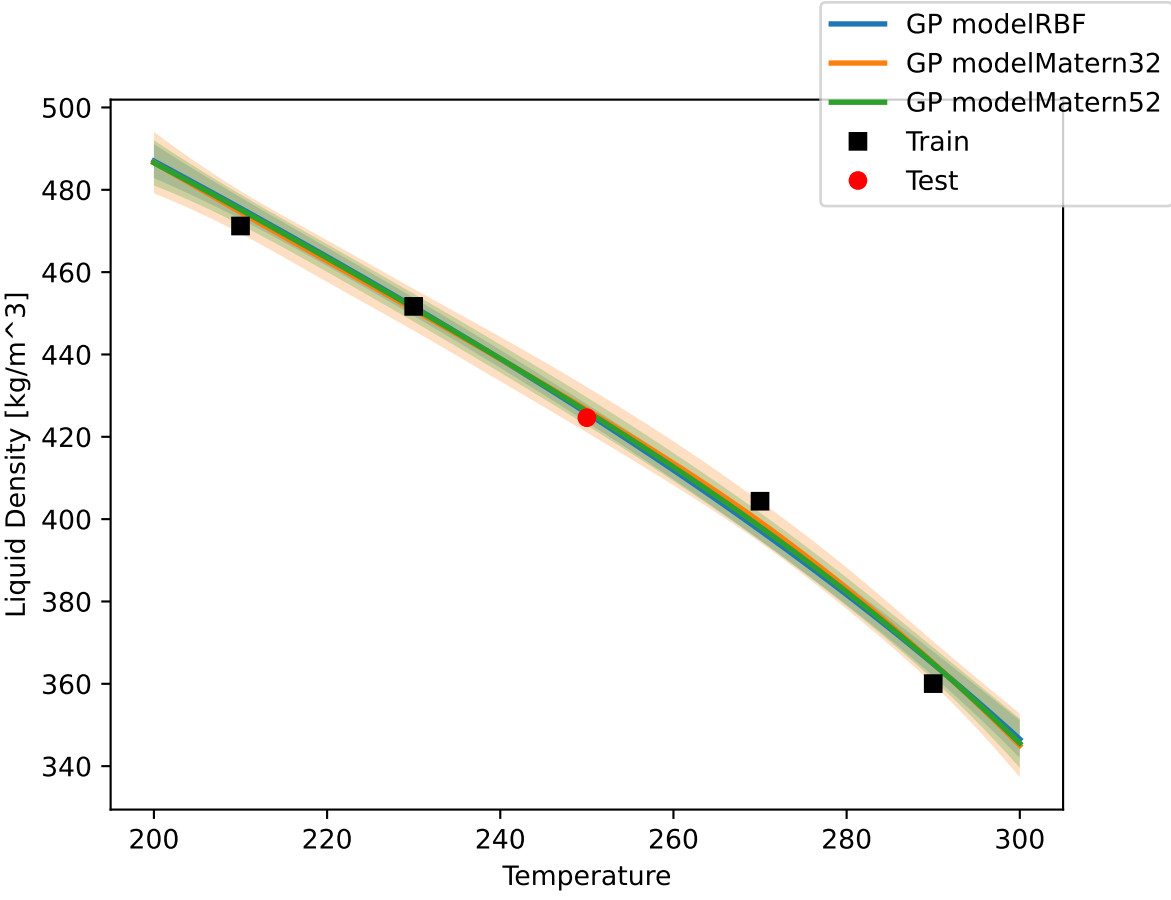
Temperature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Train
Test
Liquid Density [kg/m^3]
Temperature
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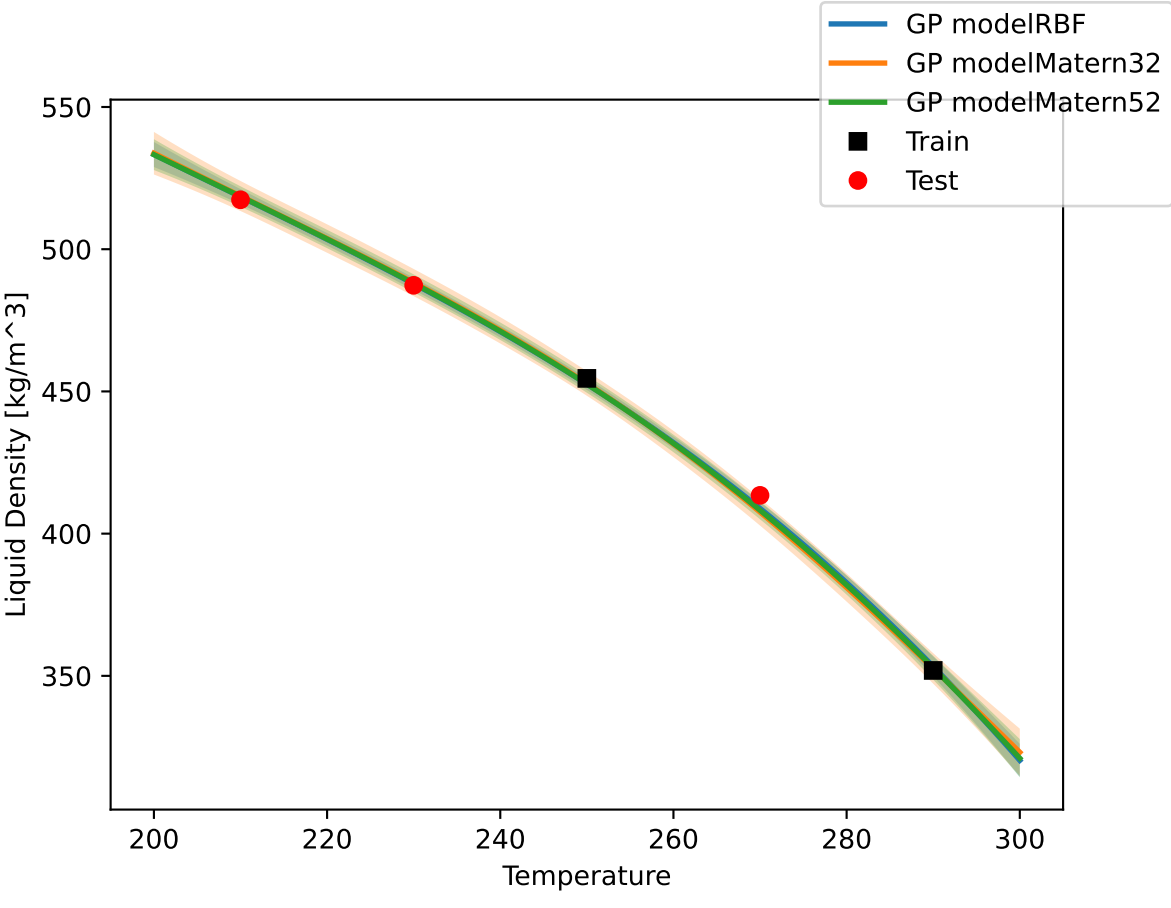
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Liquid Density [kg/m^3]
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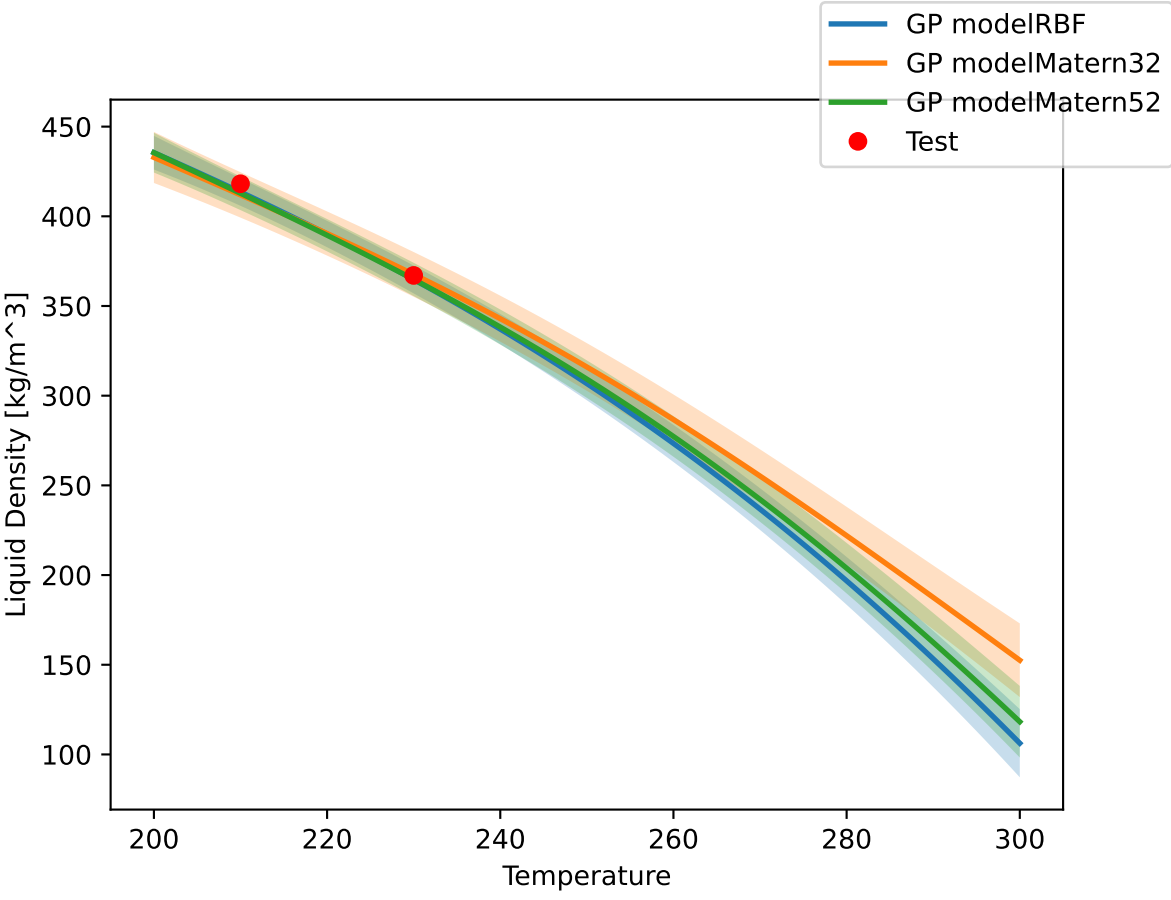
Temperature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Liquid Density [kg/m^3]
Temperature
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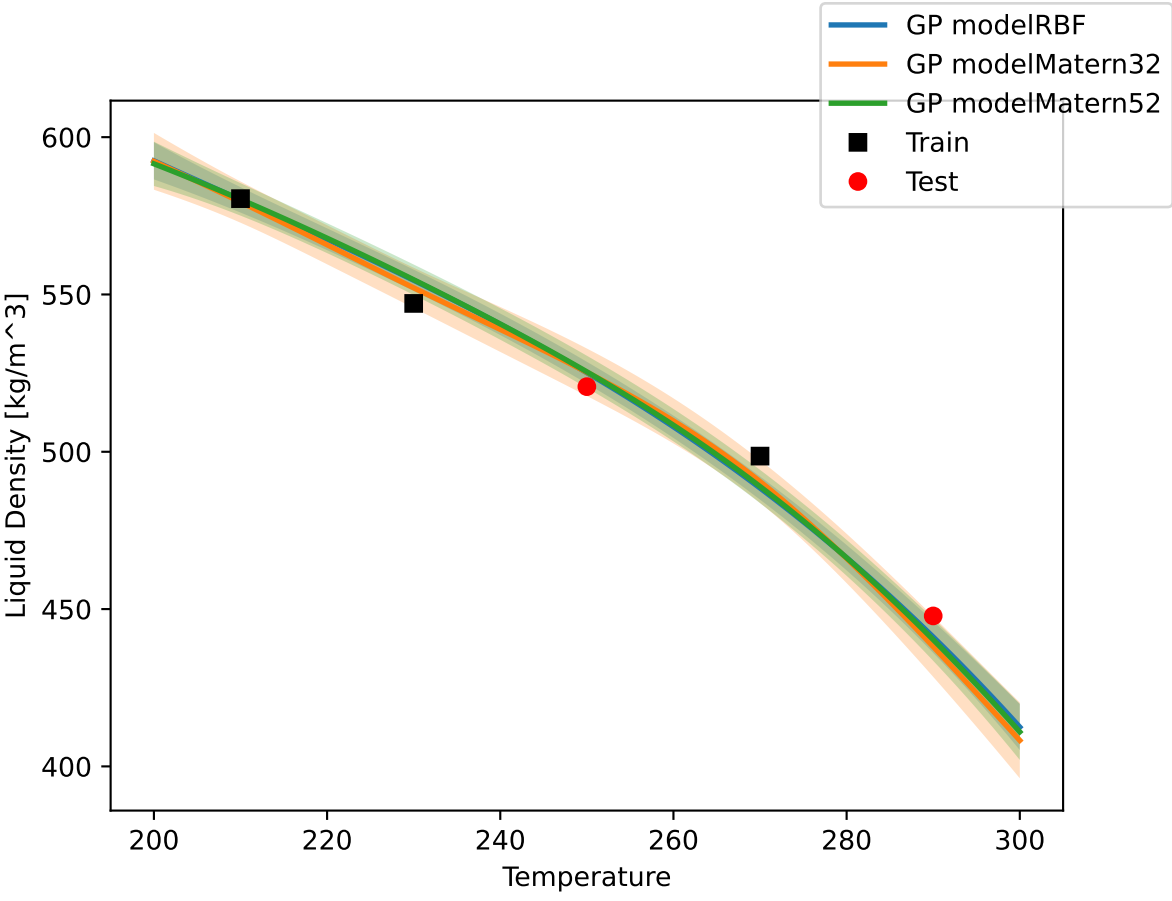
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Train
Test
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450
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Liquid Density [kg/m^3]
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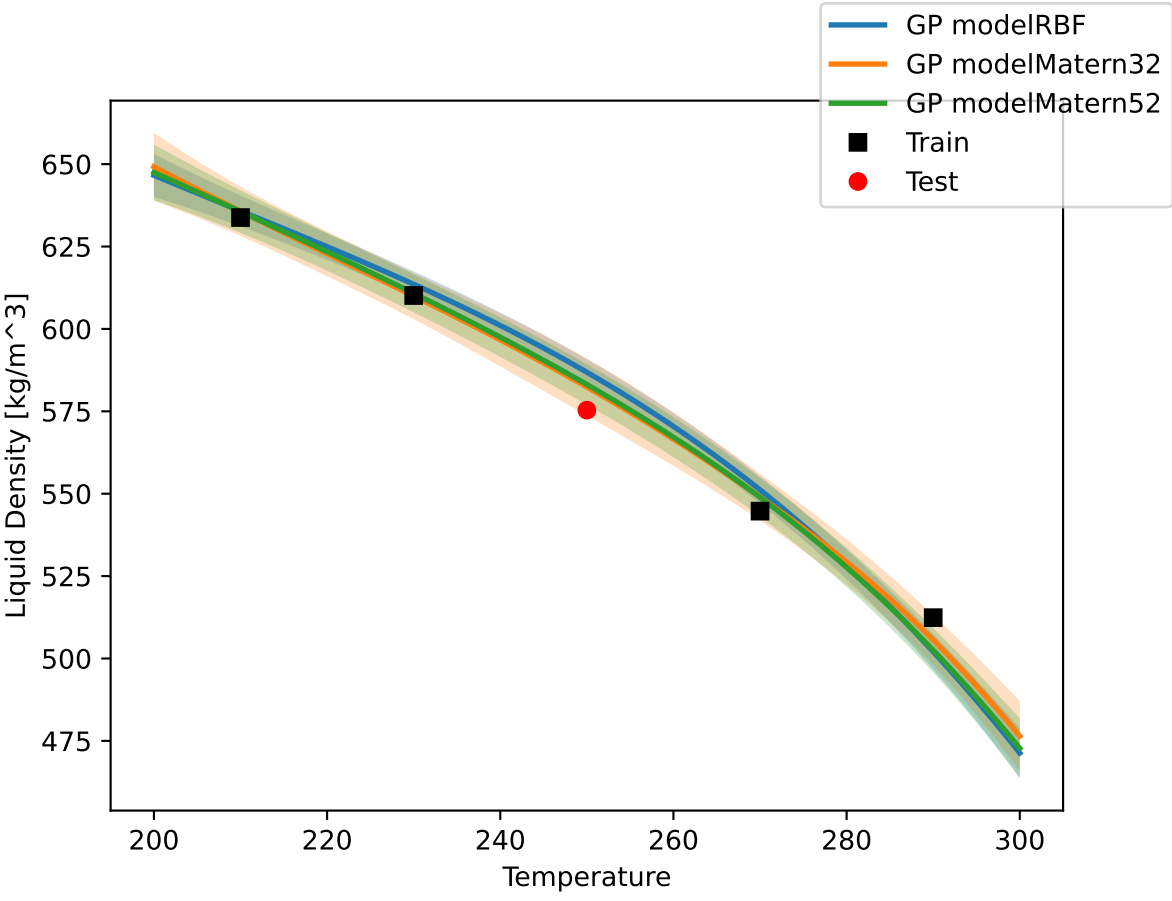
300
Temperature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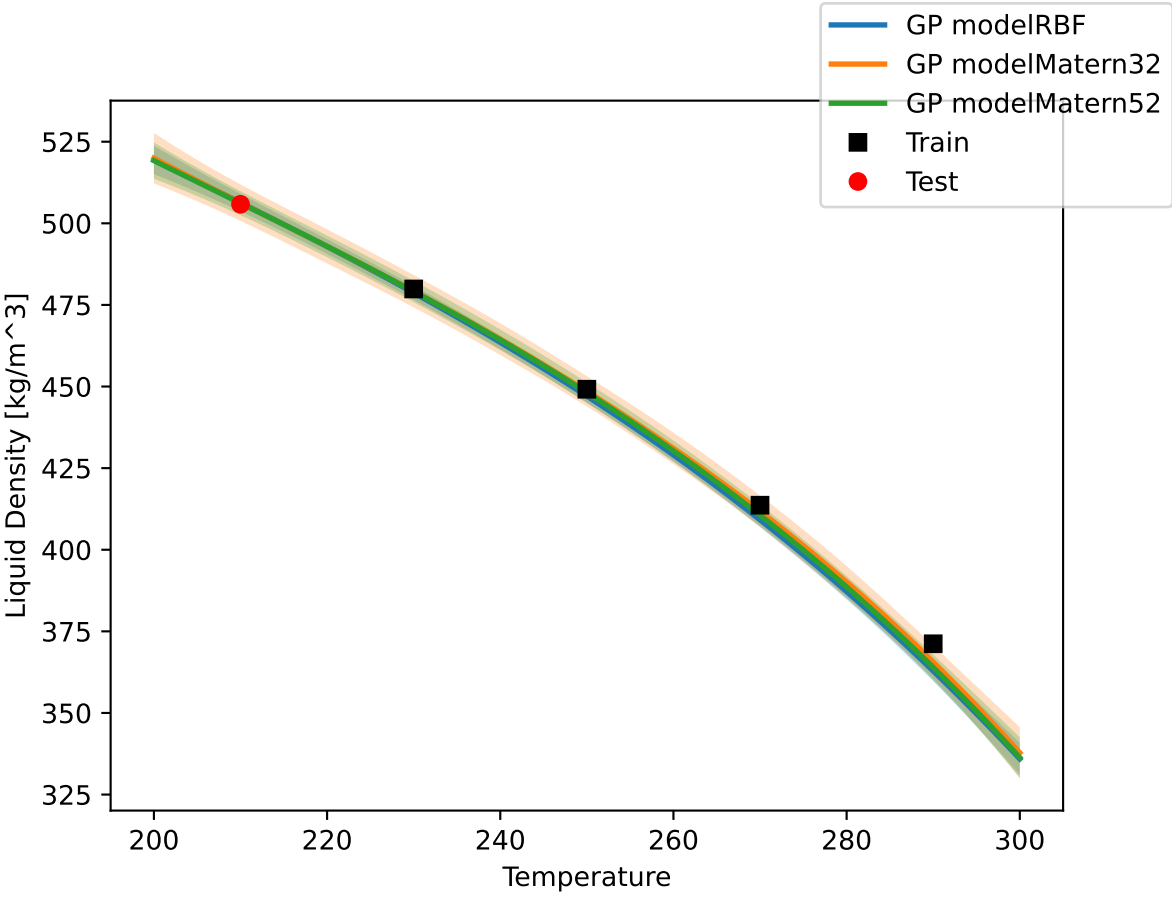
300
Temperature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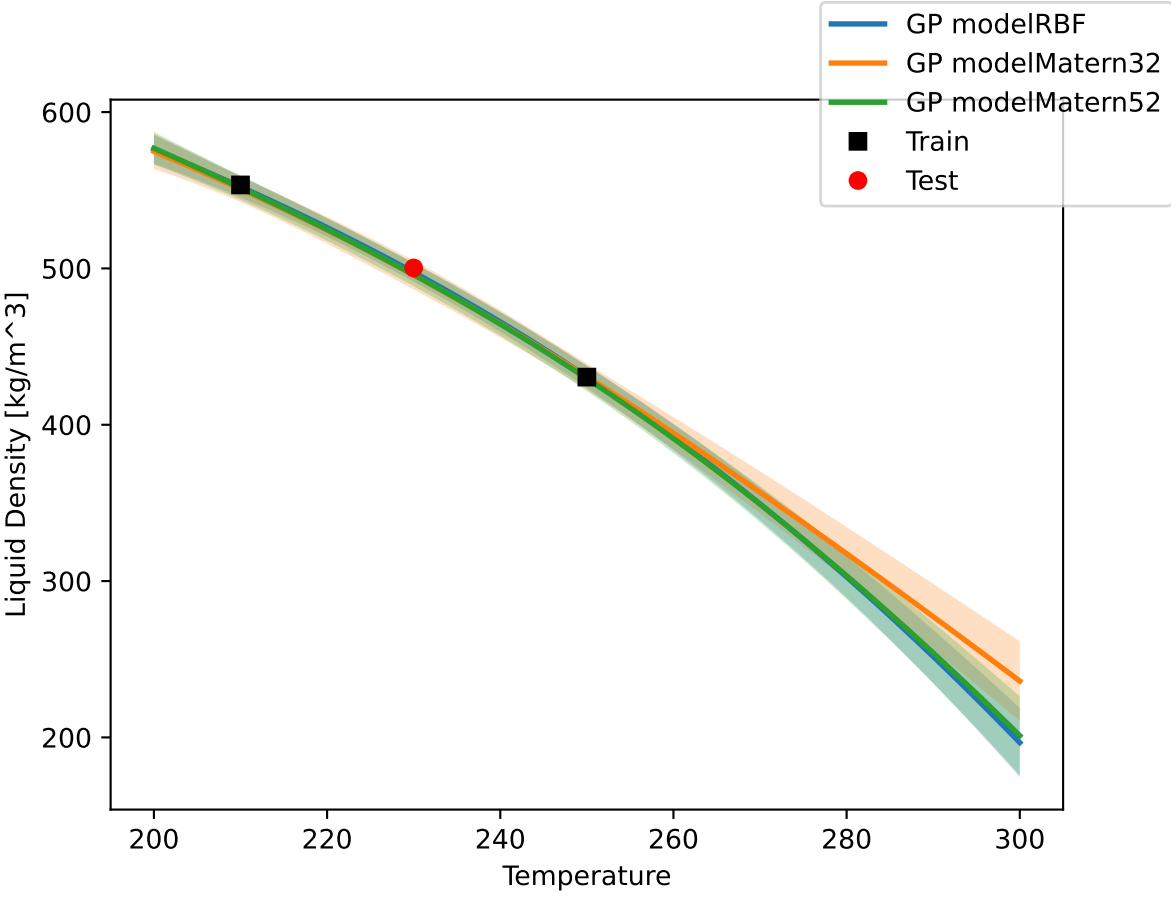
300
Temperature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Liquid Density [kg/m^3]
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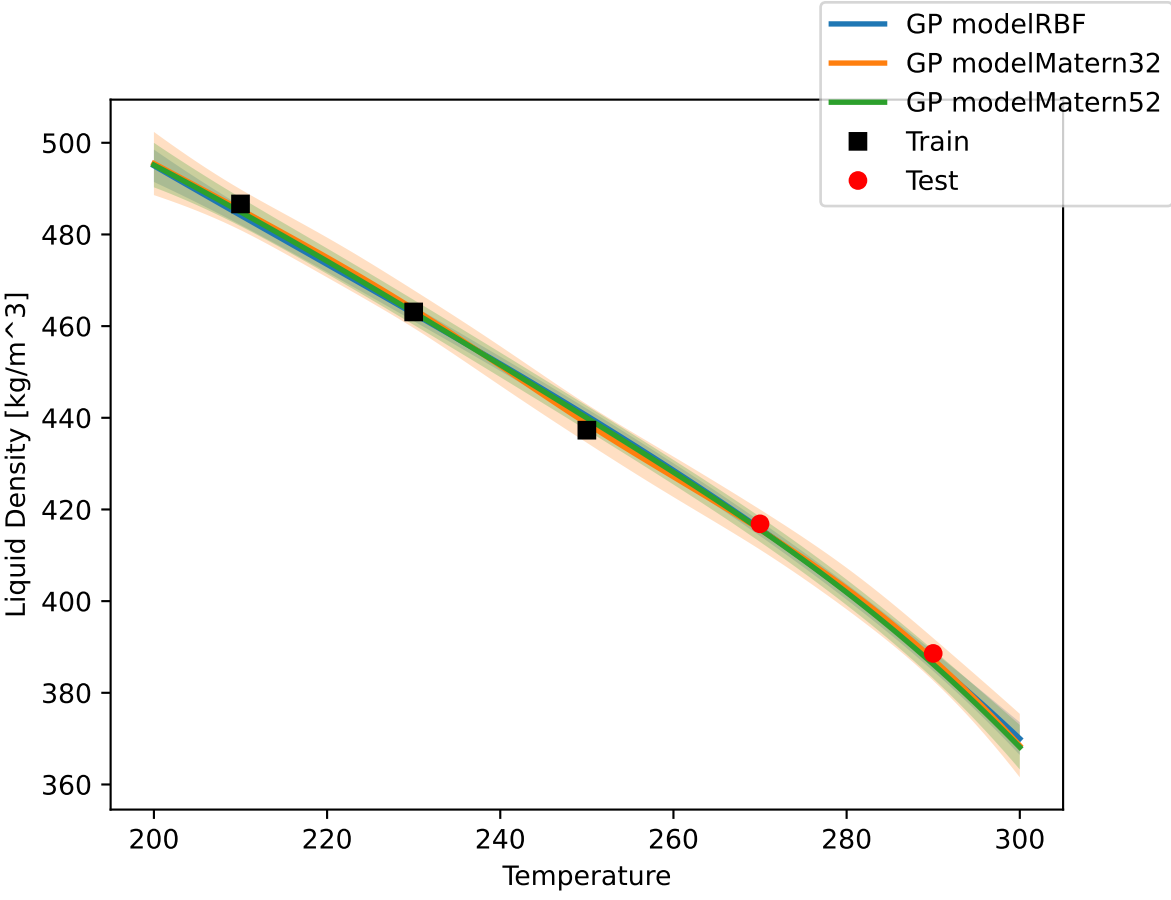
Temperature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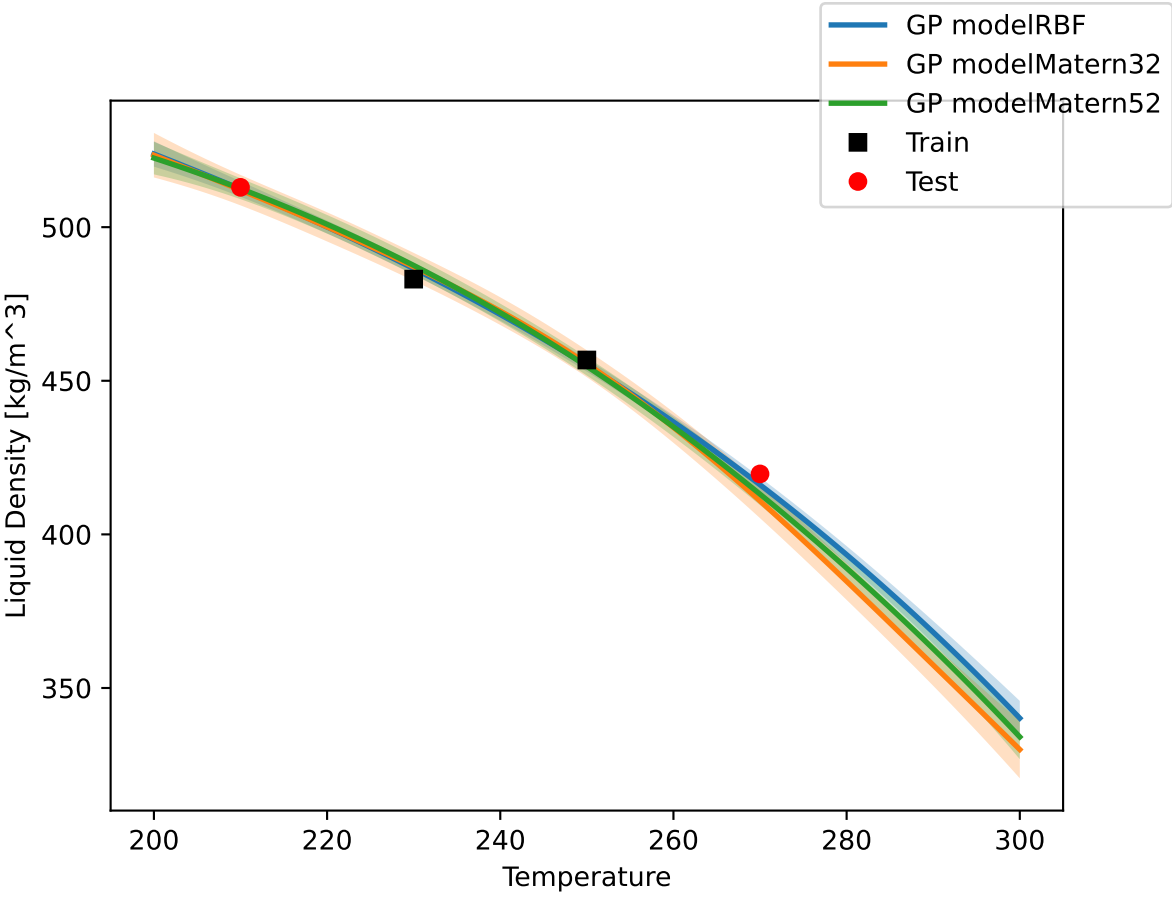
Temperature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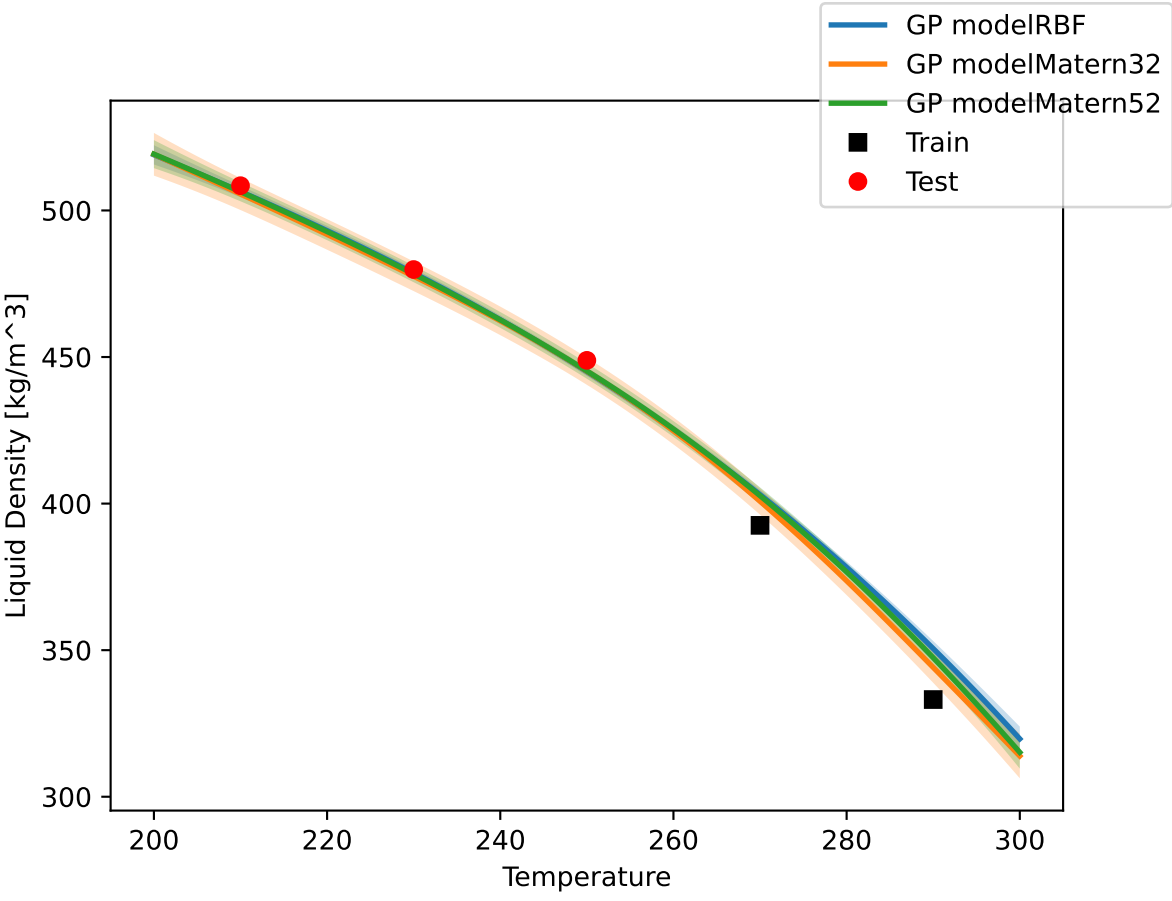
Temperature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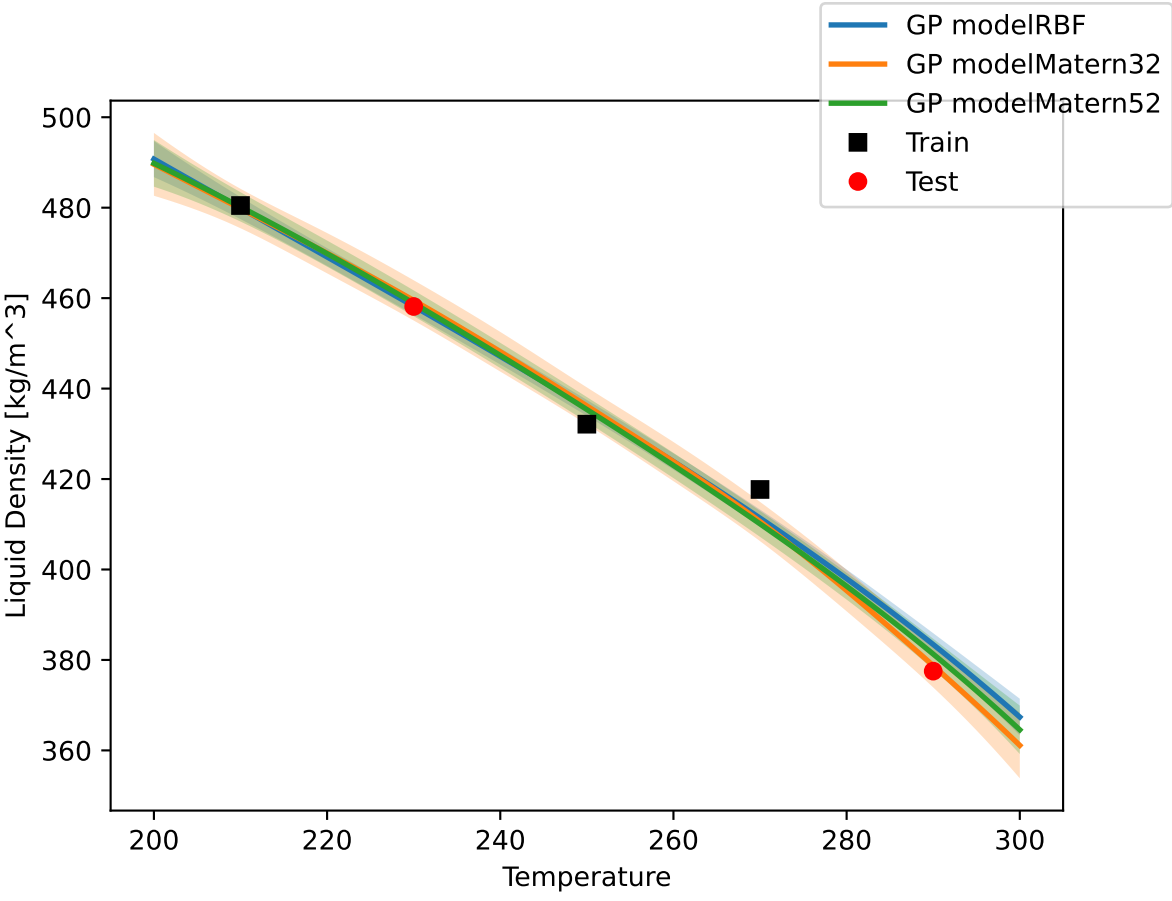
Temperature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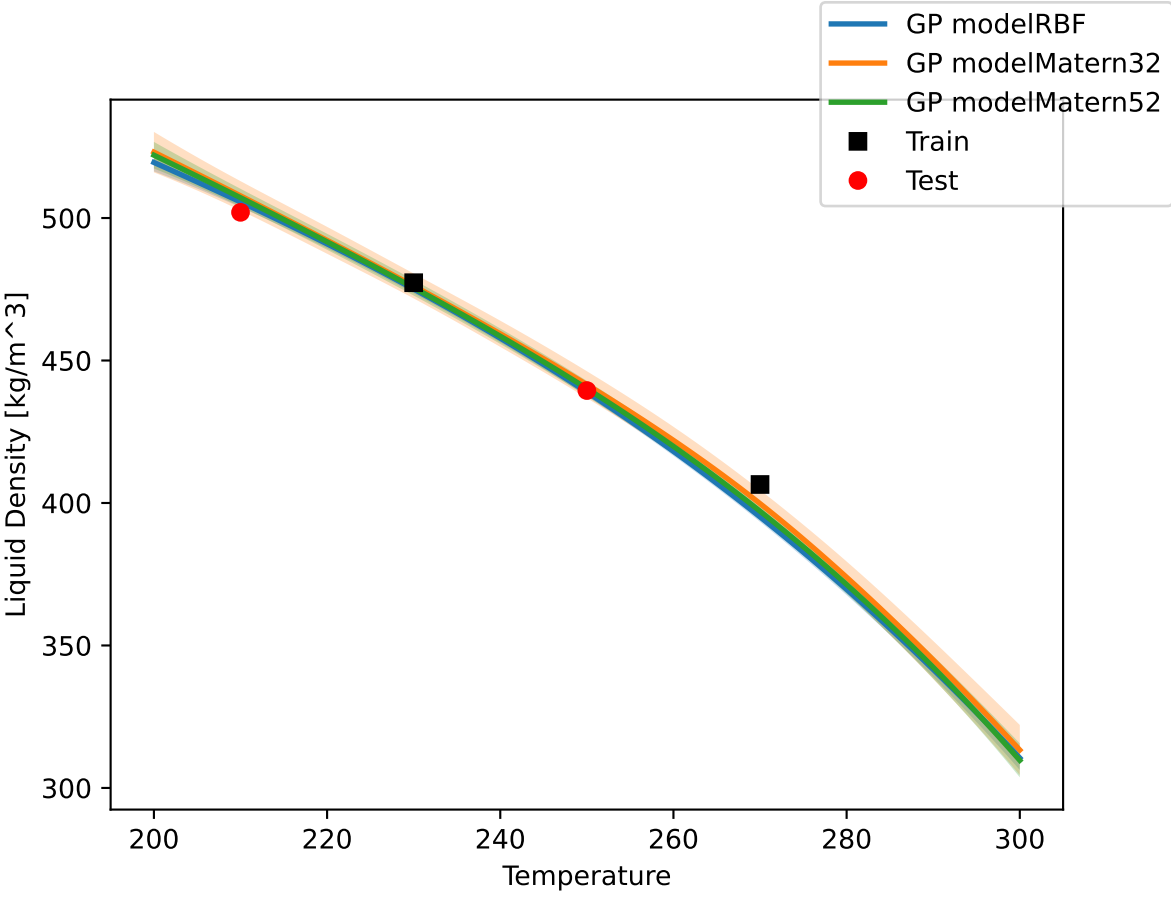
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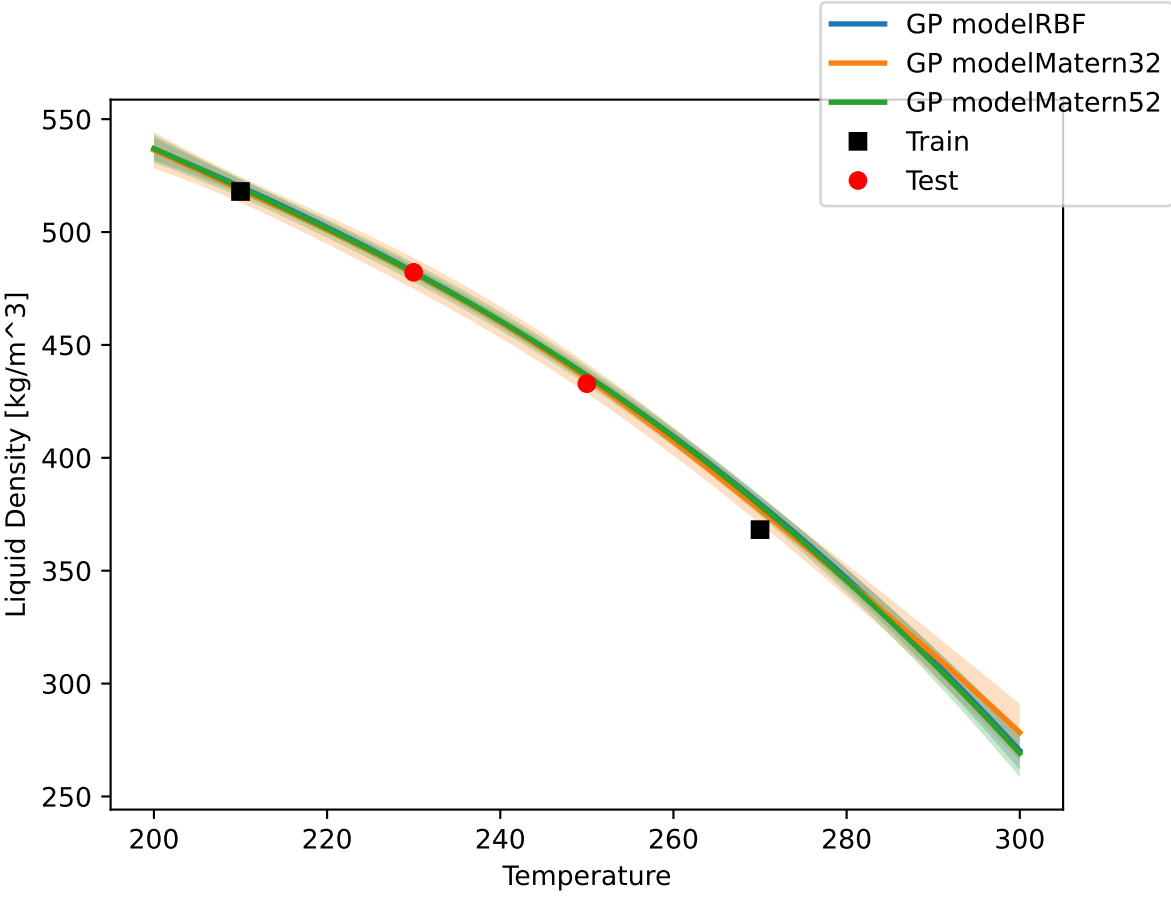
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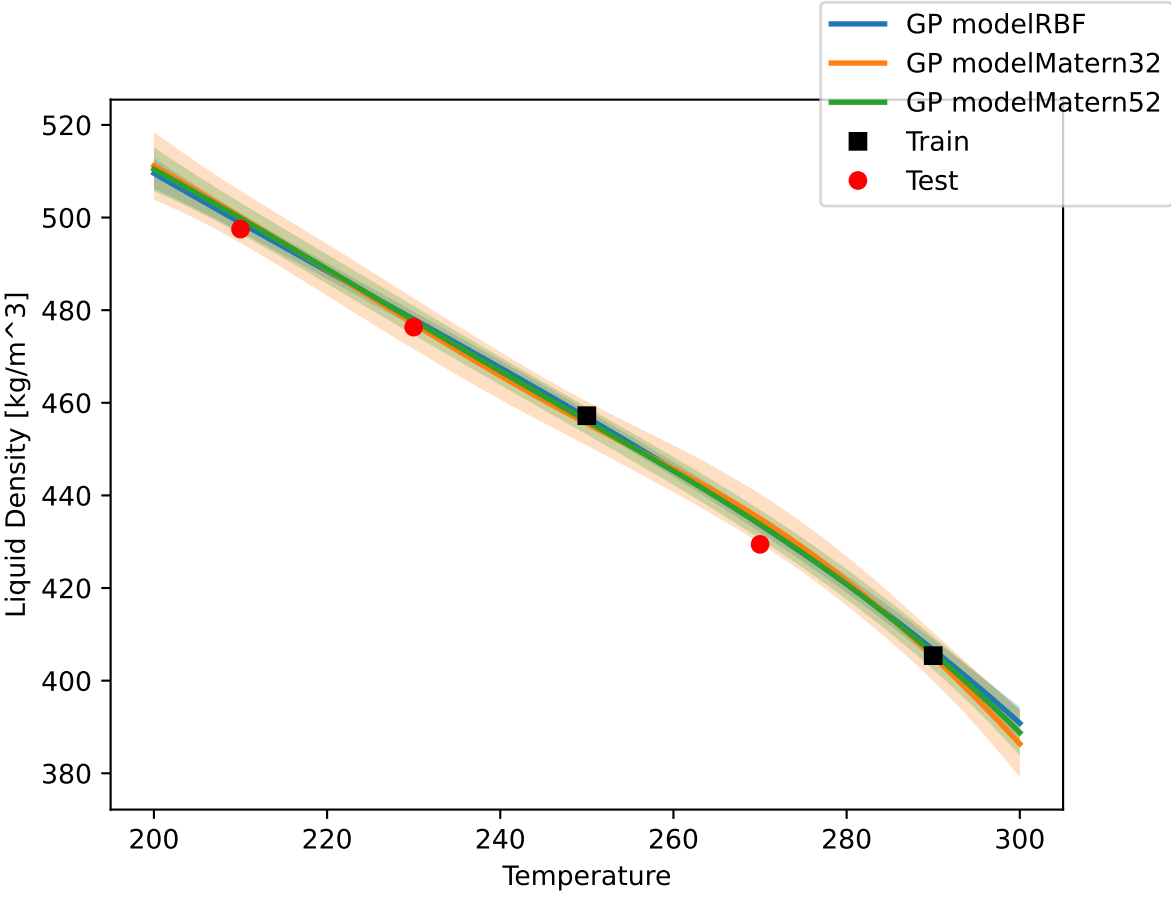
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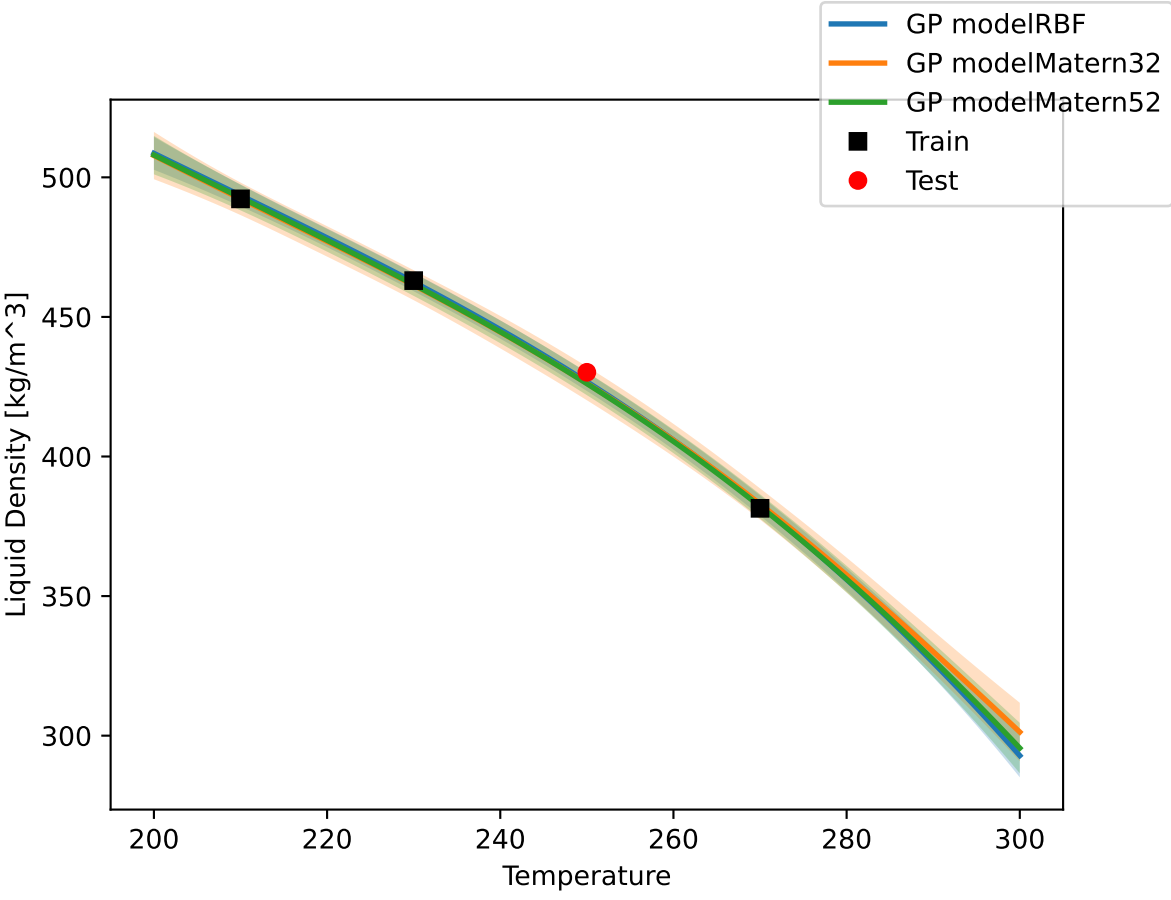
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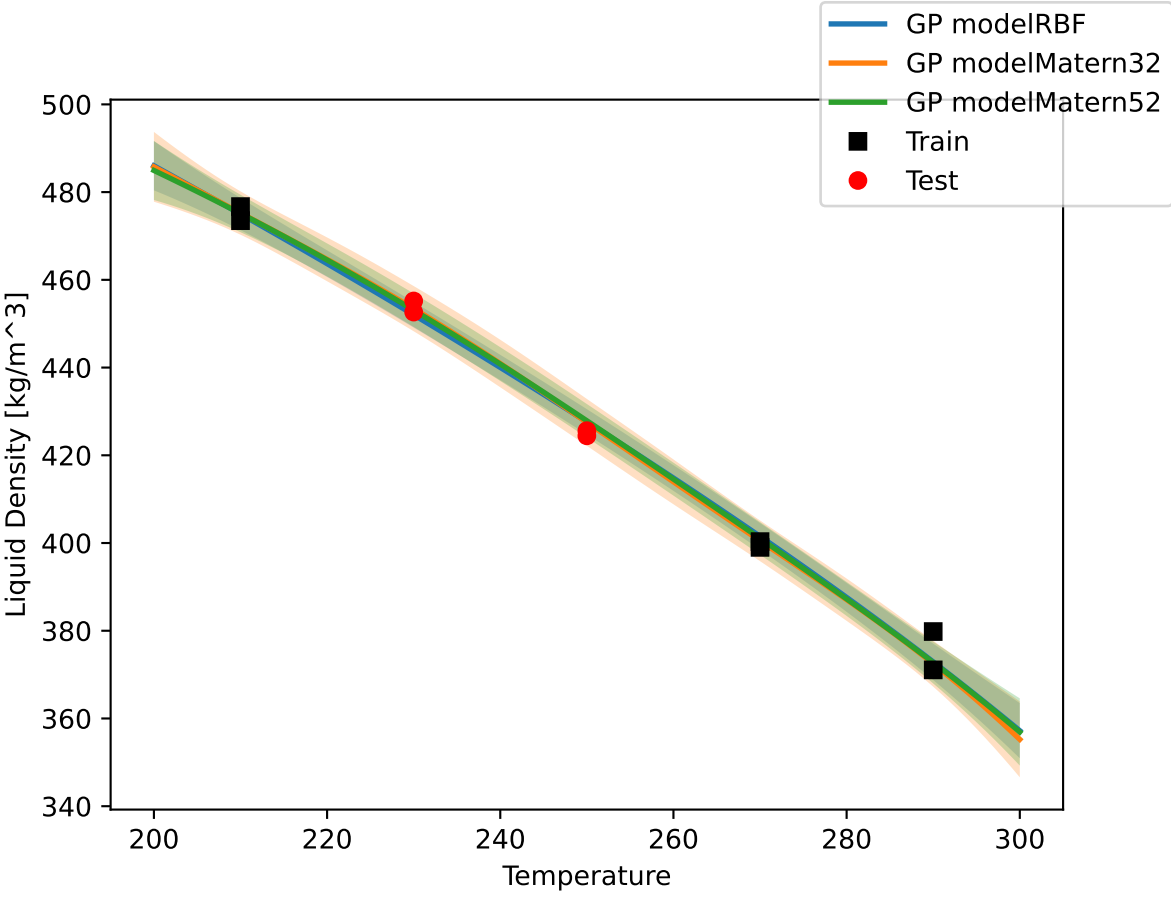
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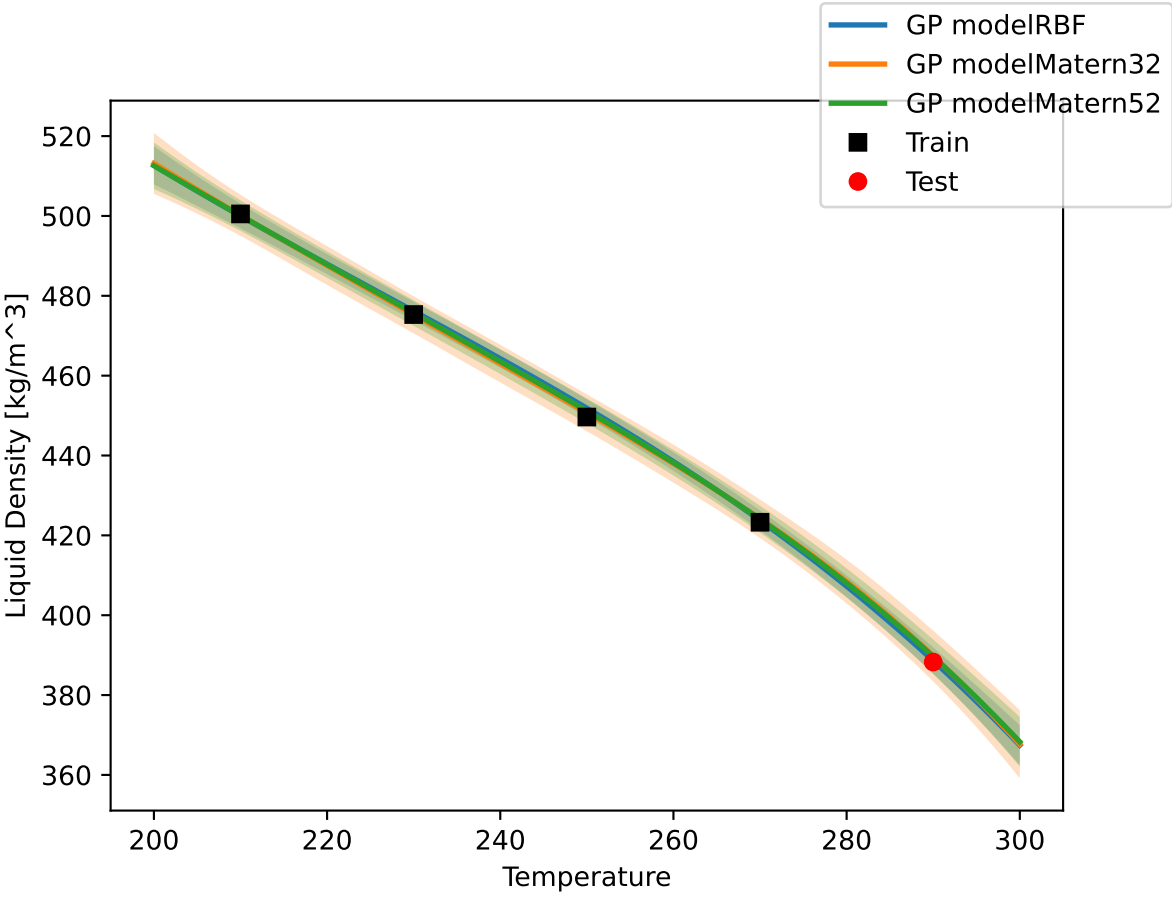
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Temperature
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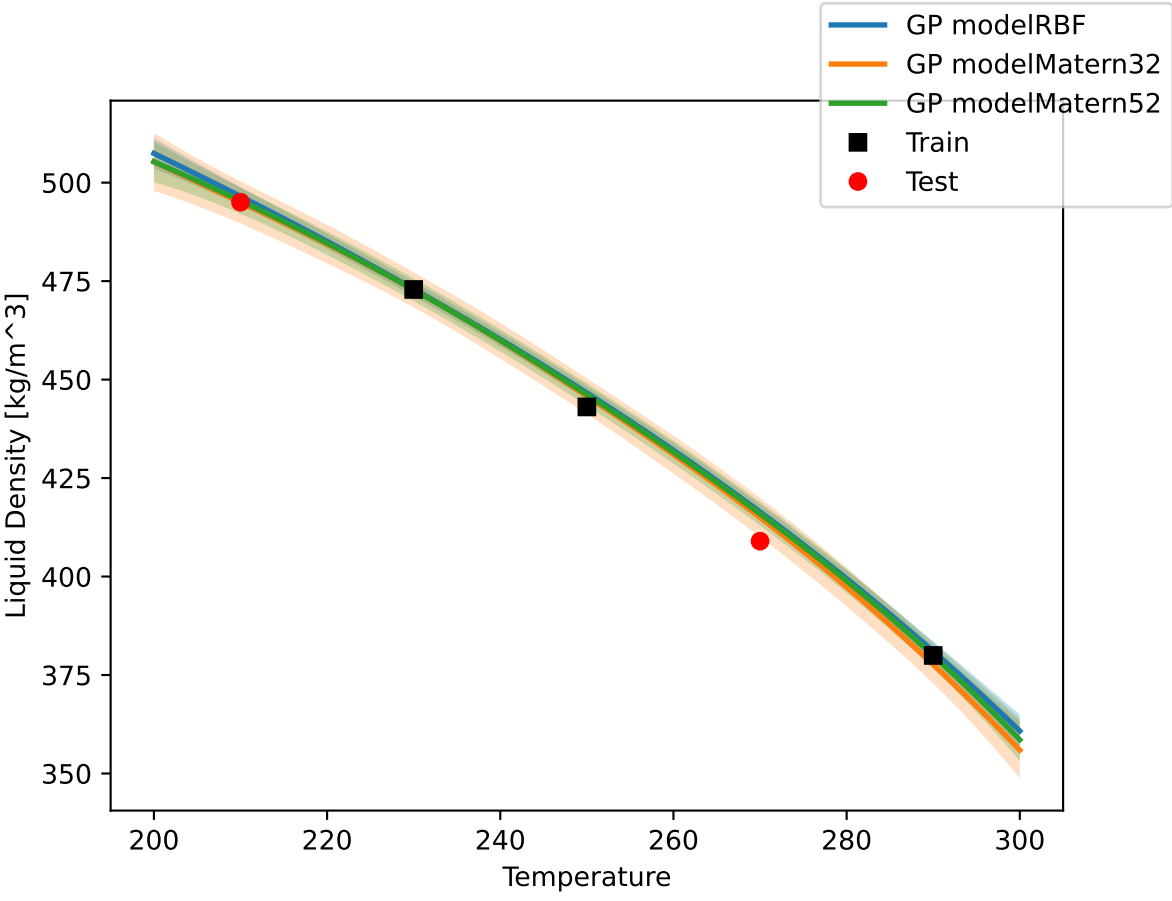
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Liquid Density [kg/m^3]
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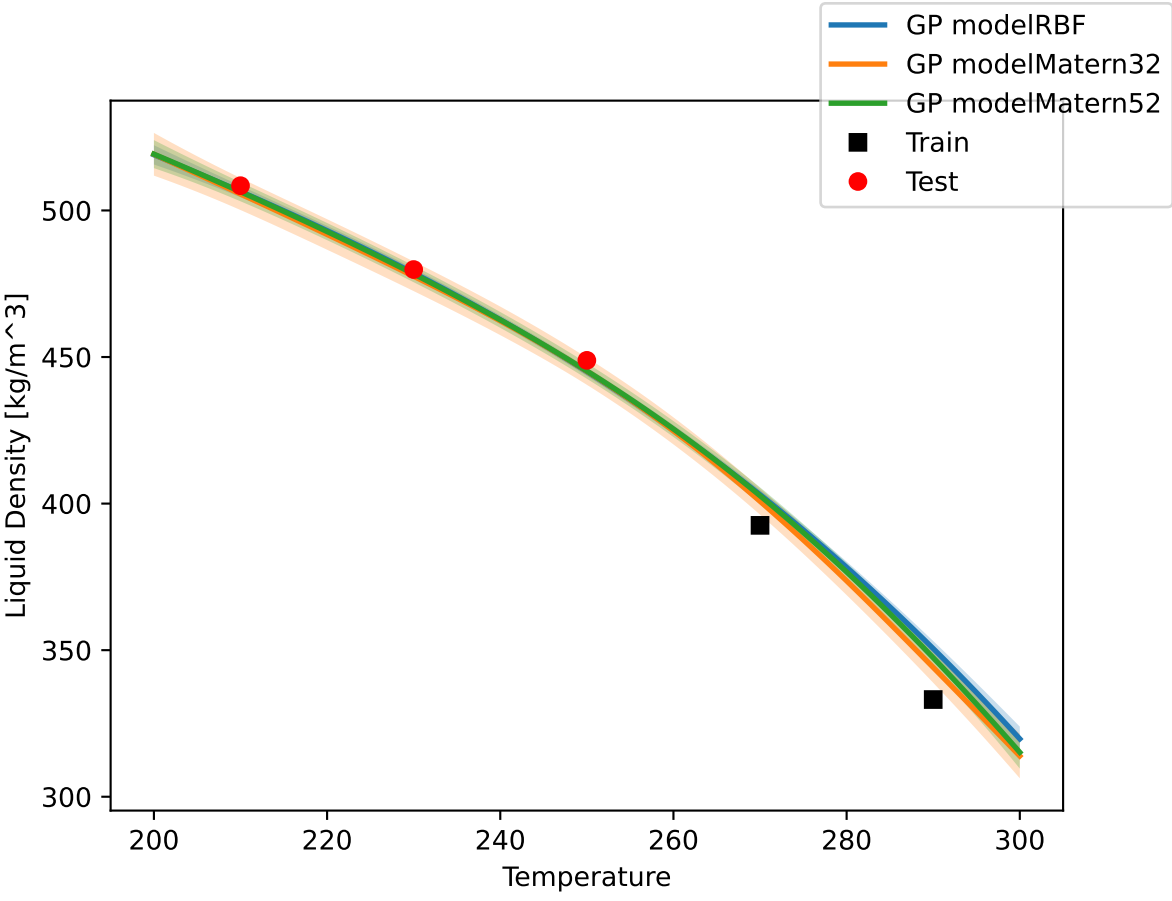
Temperature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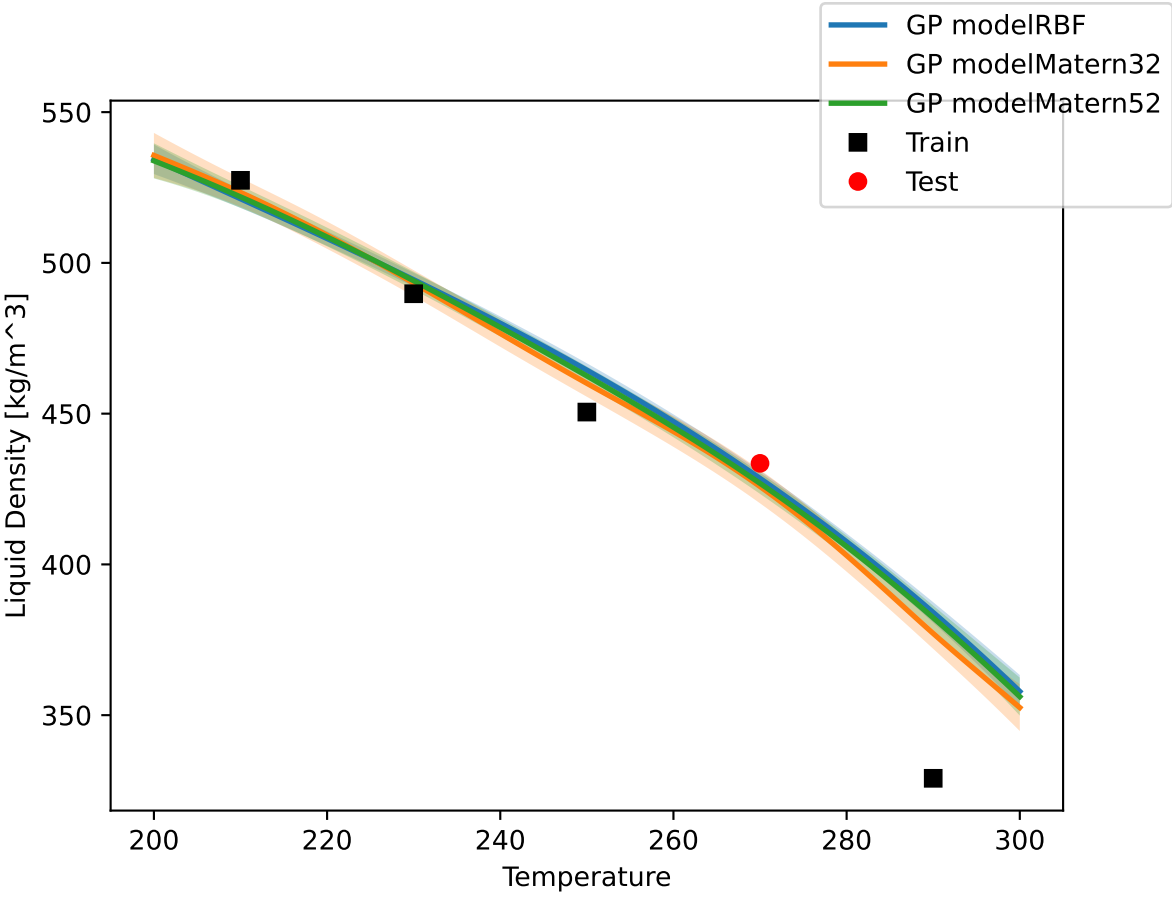
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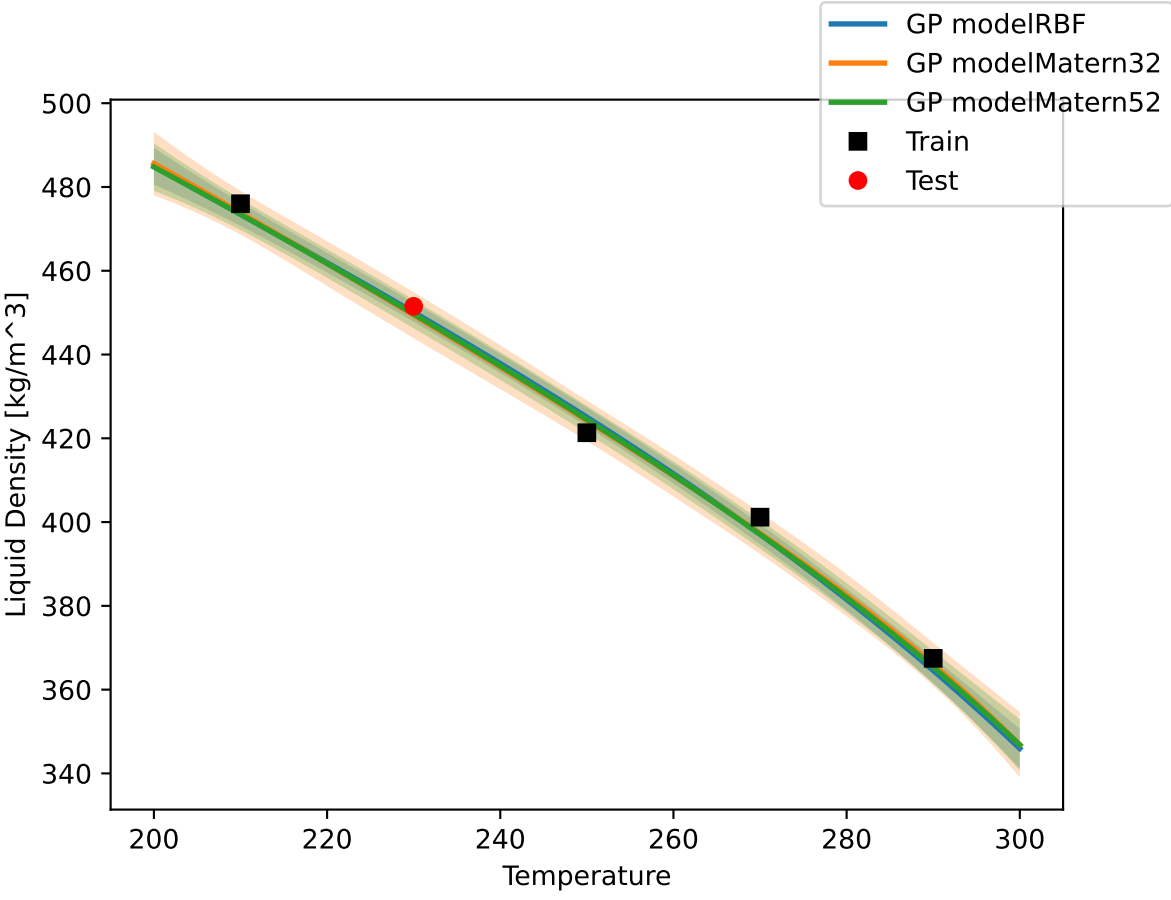
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Temperature
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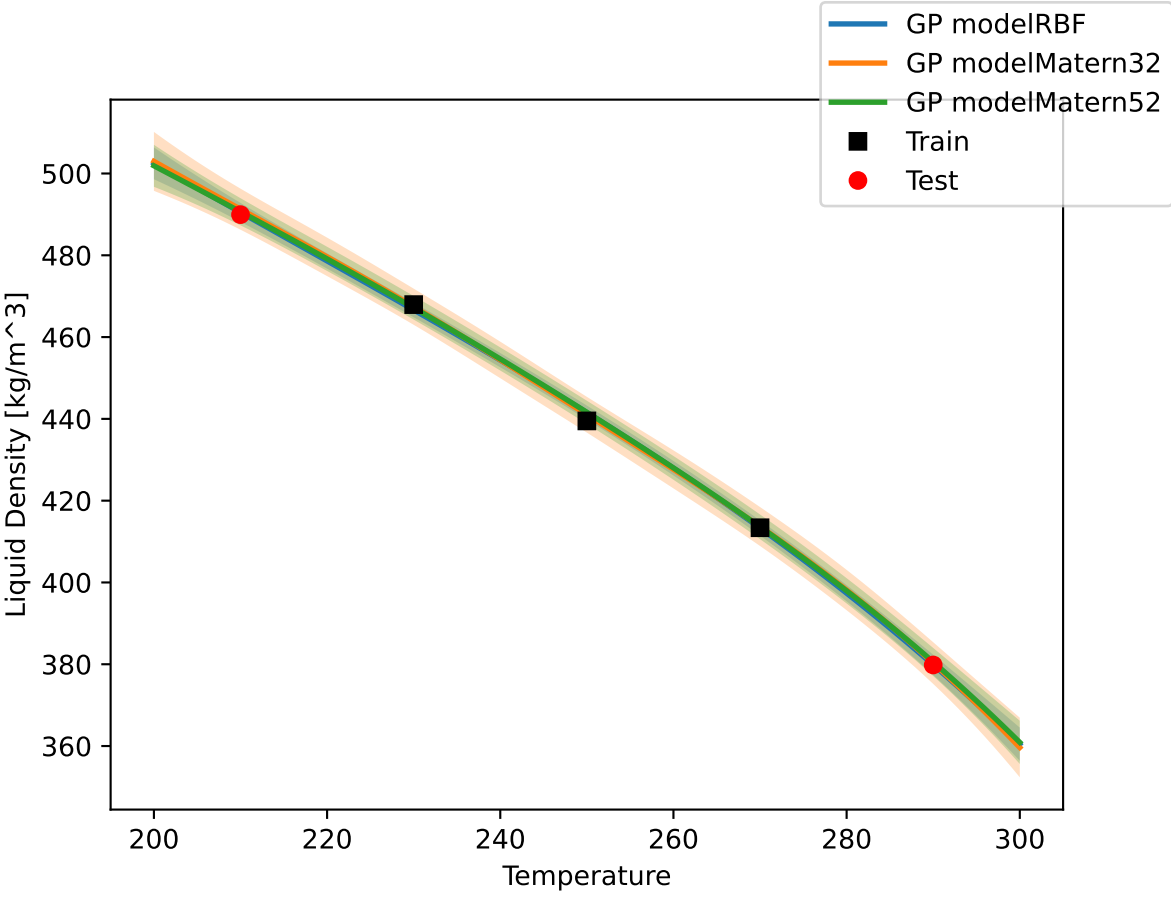
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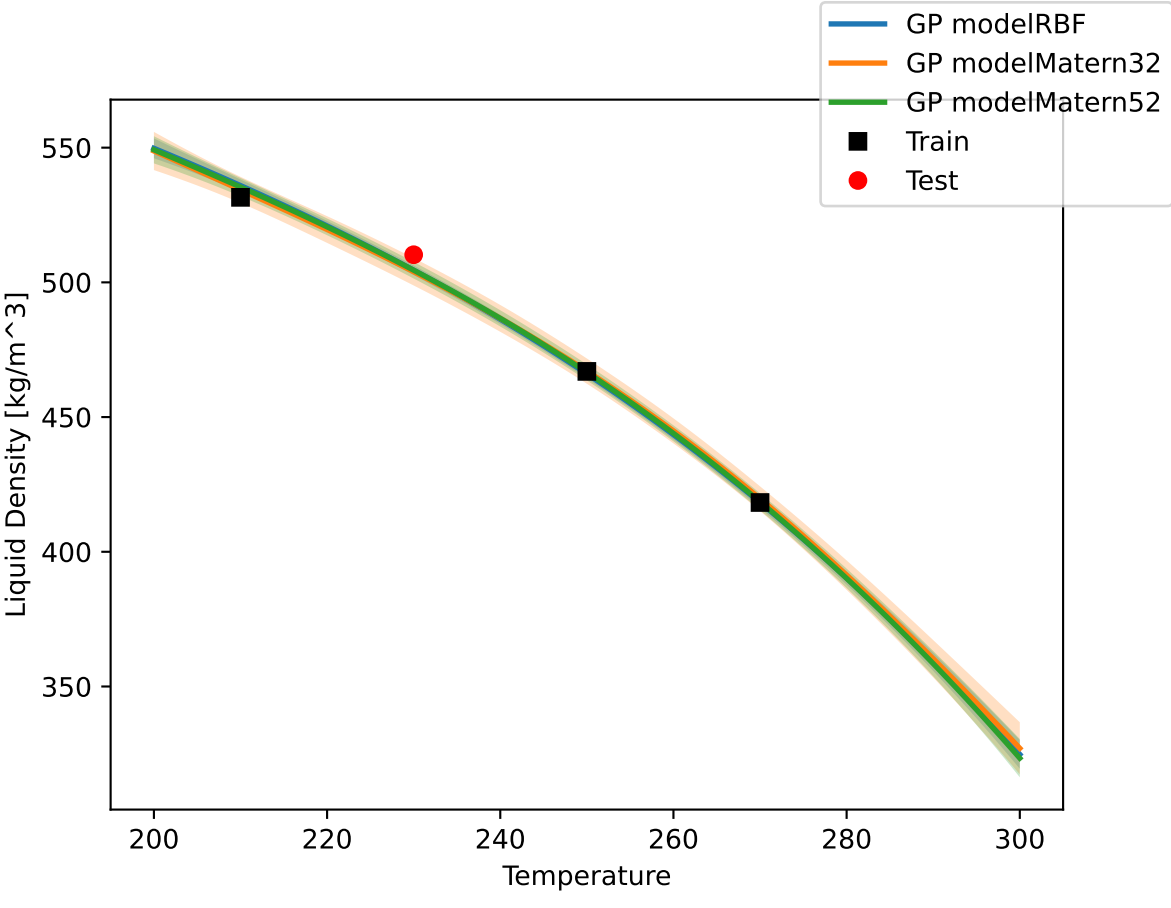
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Liquid Density [kg/m^3]
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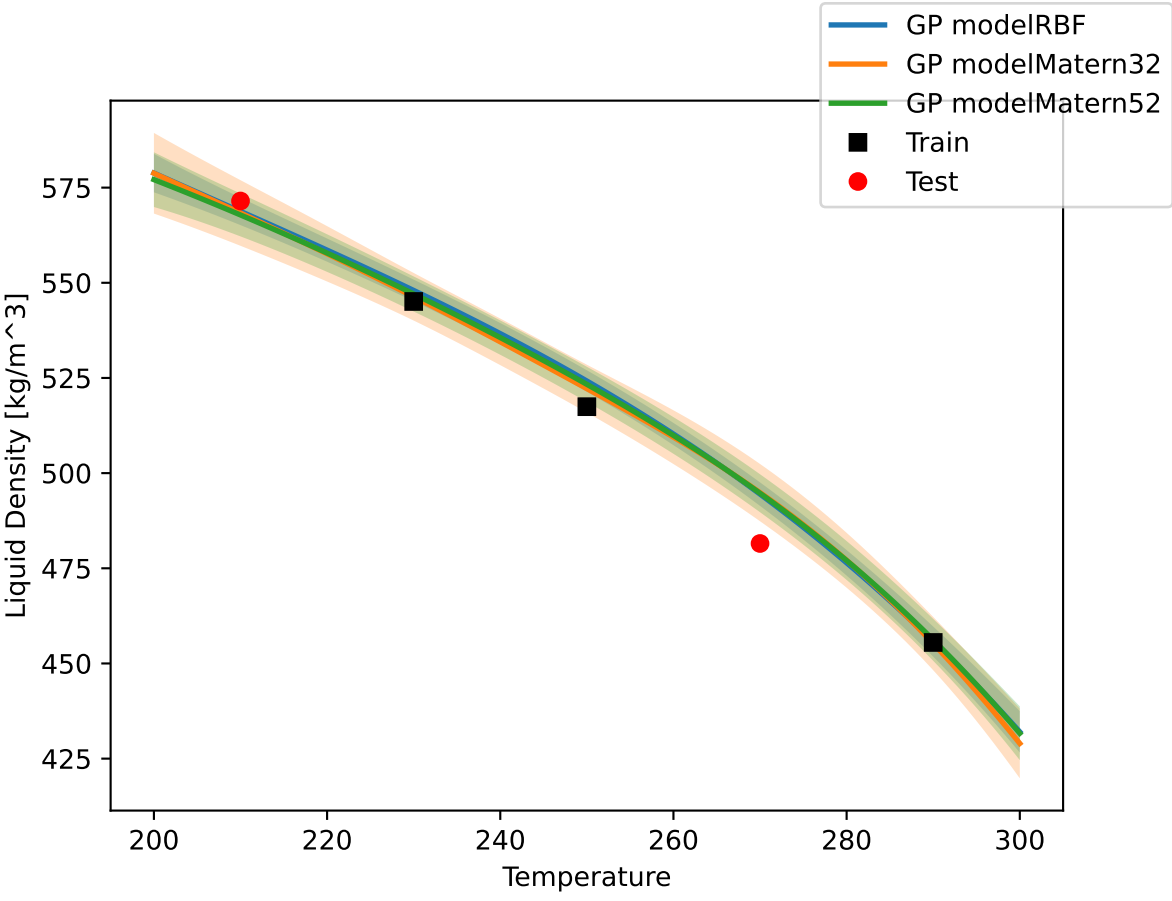
Temperature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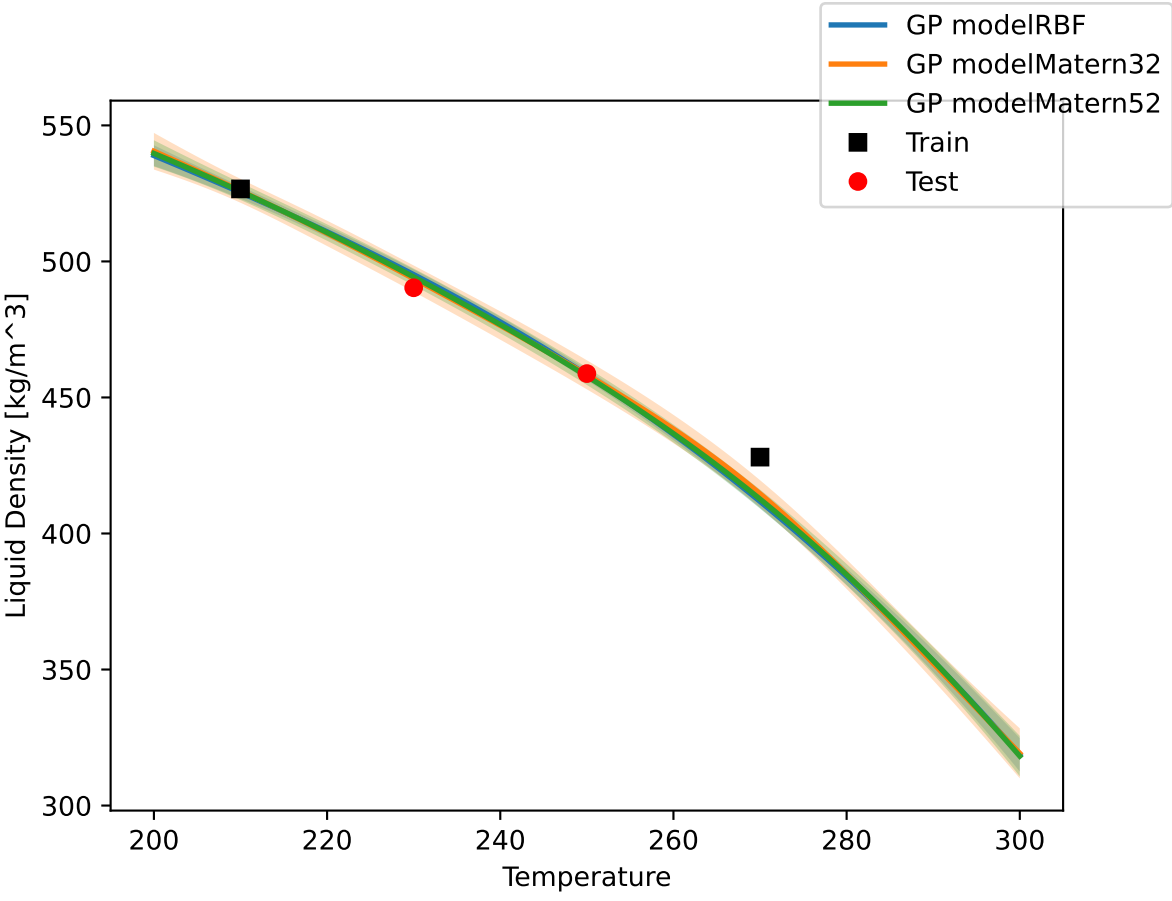
Temperature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Liquid Density [kg/m^3]
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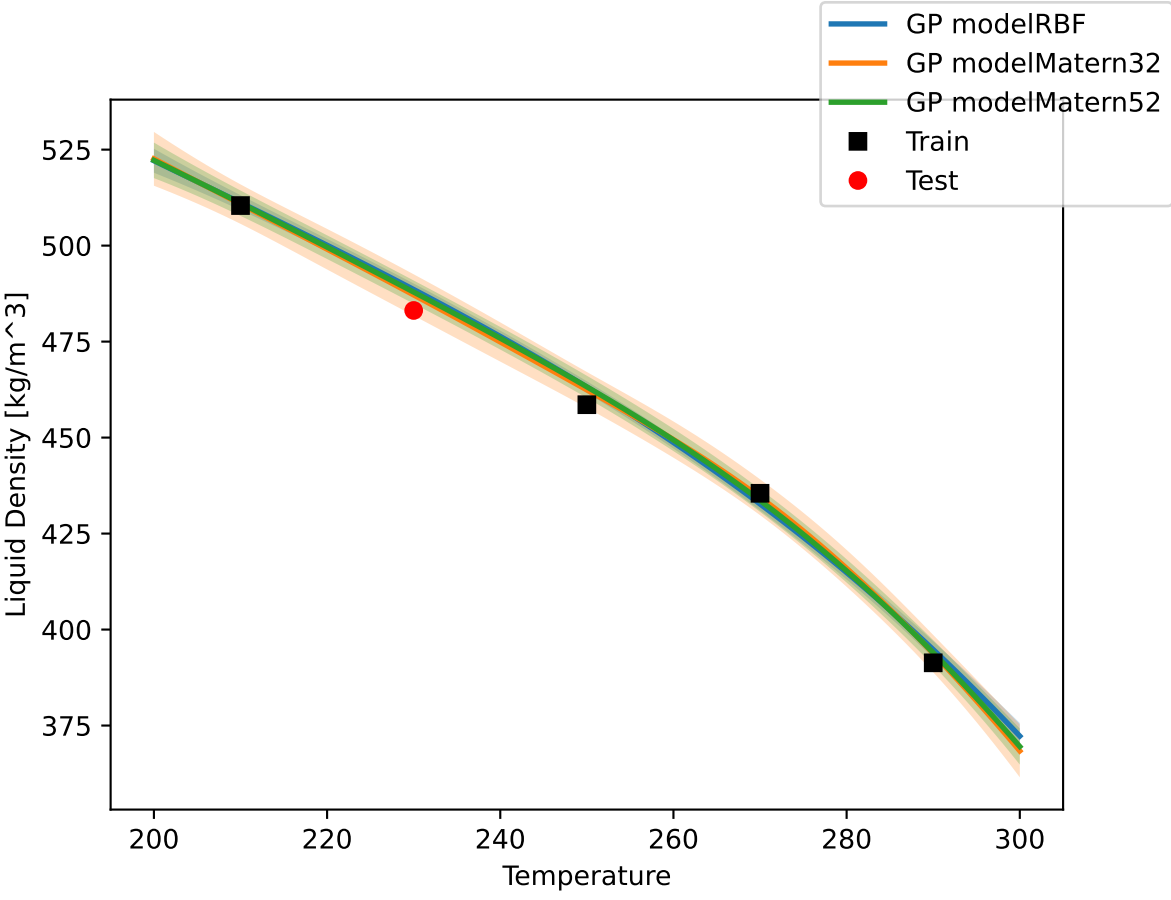
Temperature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Liquid Density [kg/m^3]
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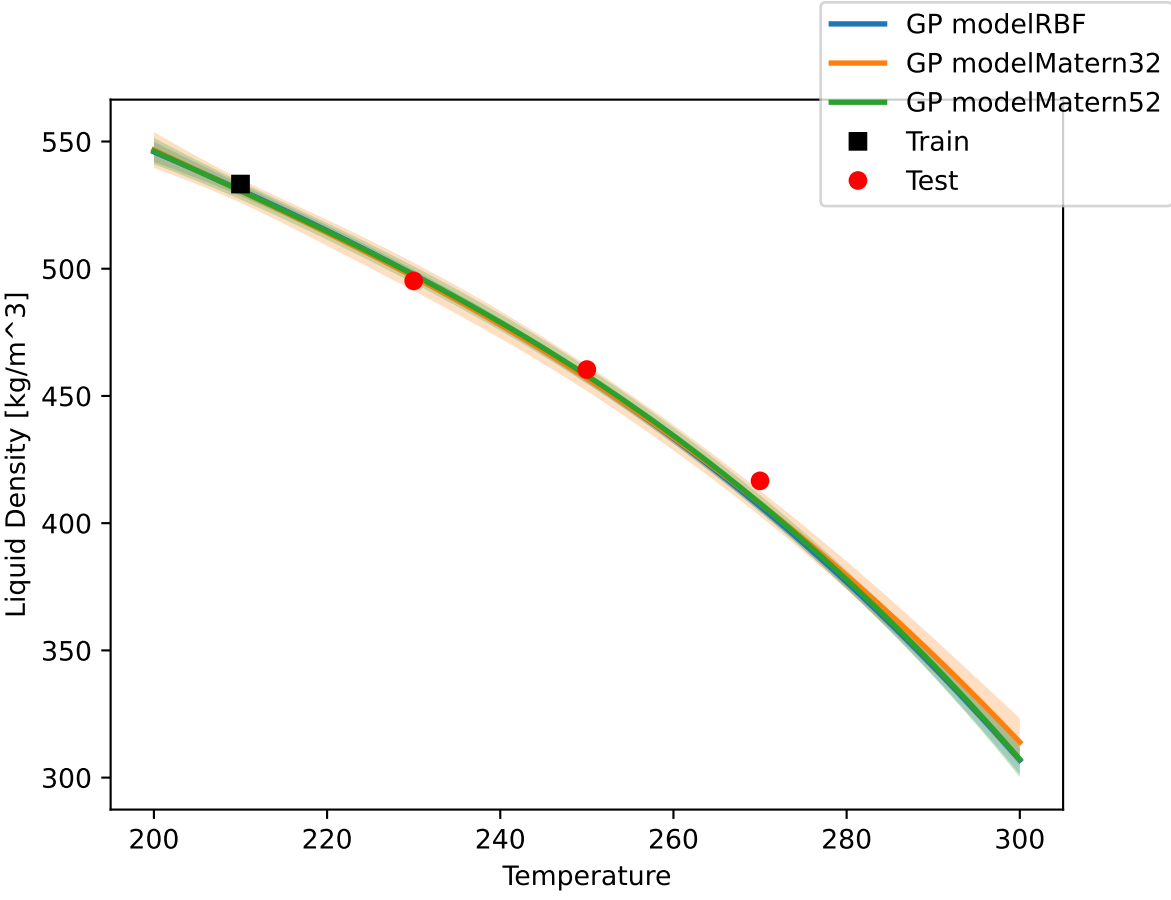
Temperature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Liquid Density [kg/m^3]
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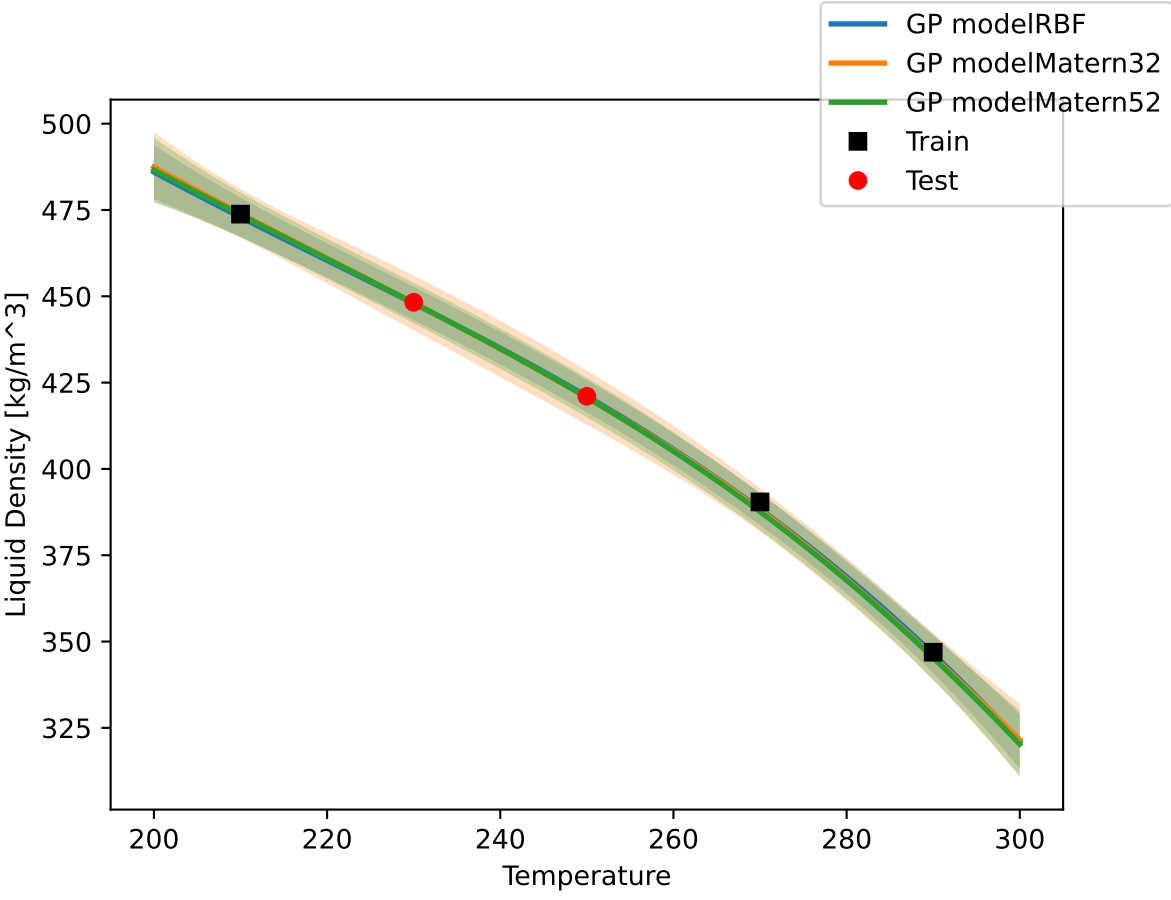
Temperature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Train
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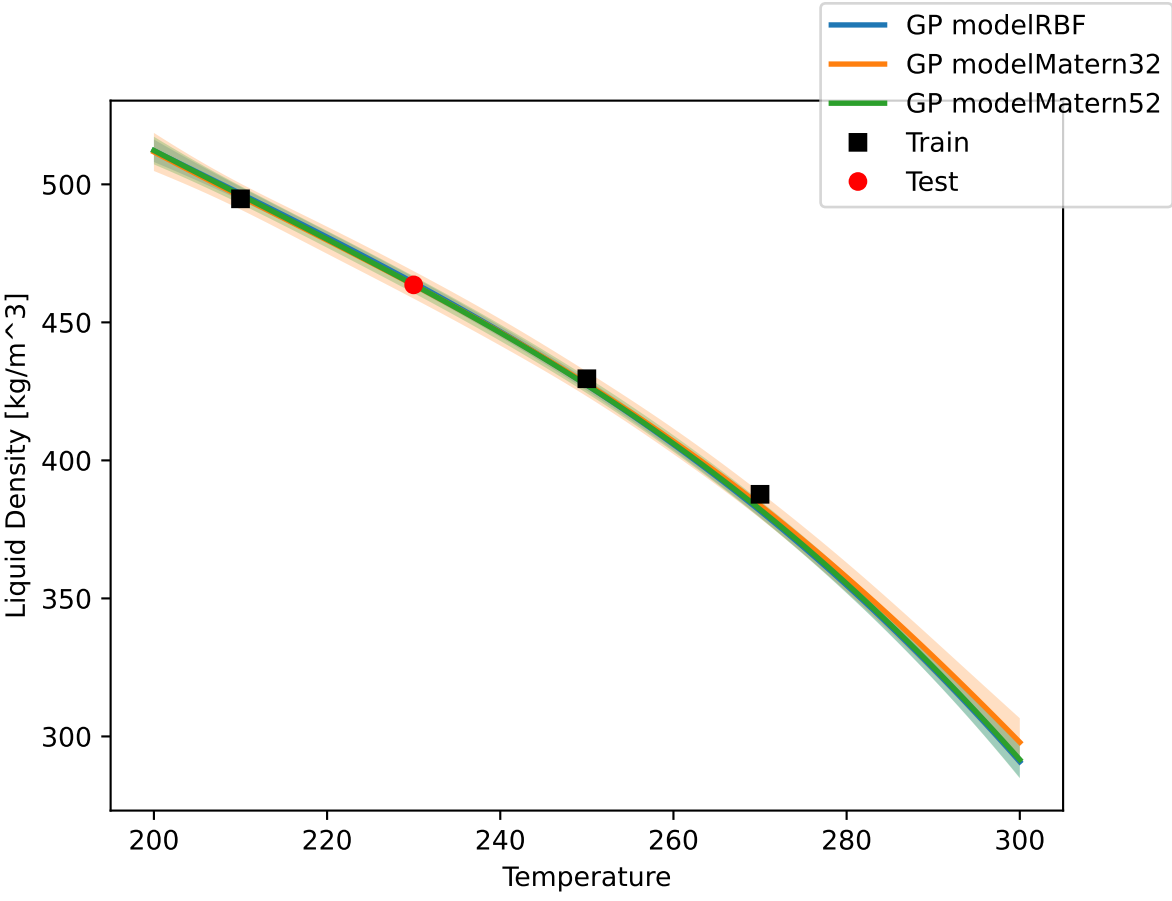
Temperature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Train
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Liquid Density [kg/m^3]
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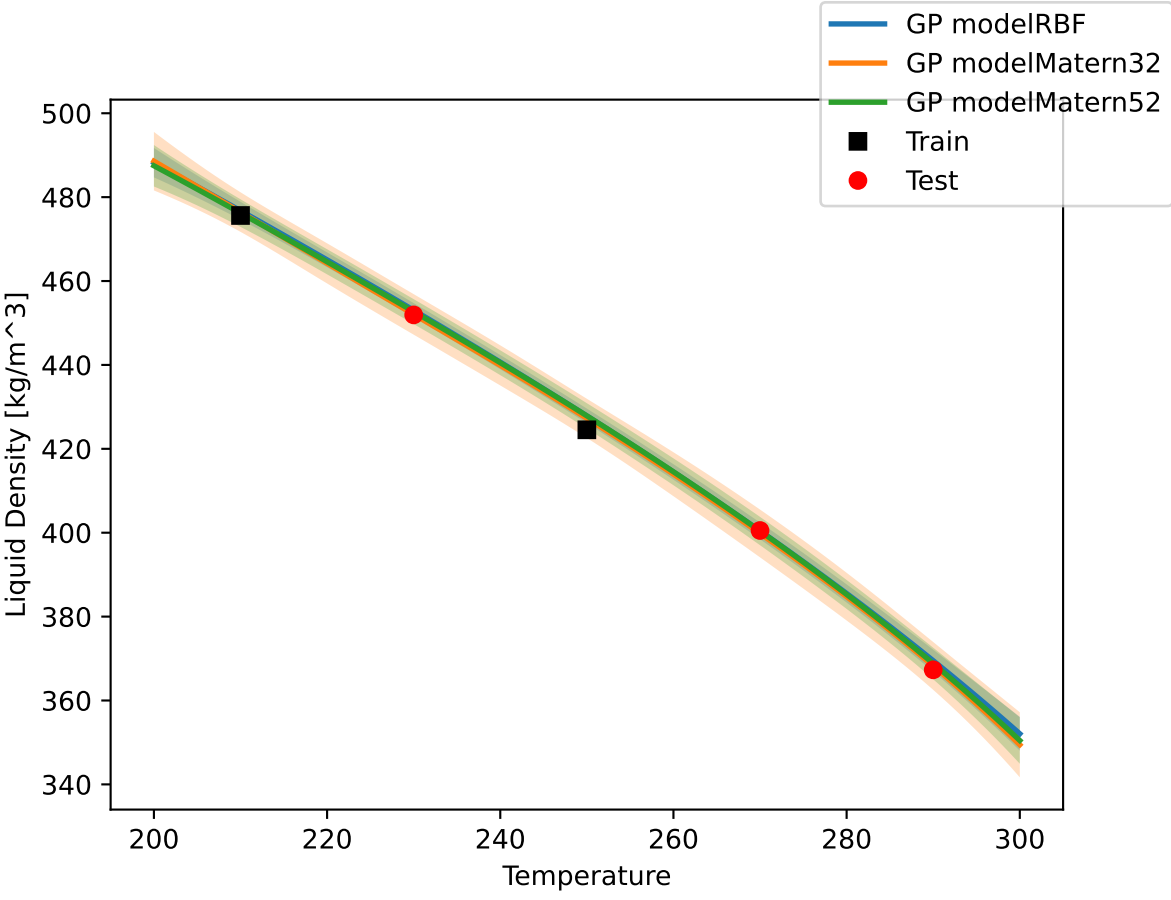
Temperature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Train
Test
Liquid Density [kg/m^3]
Temperature
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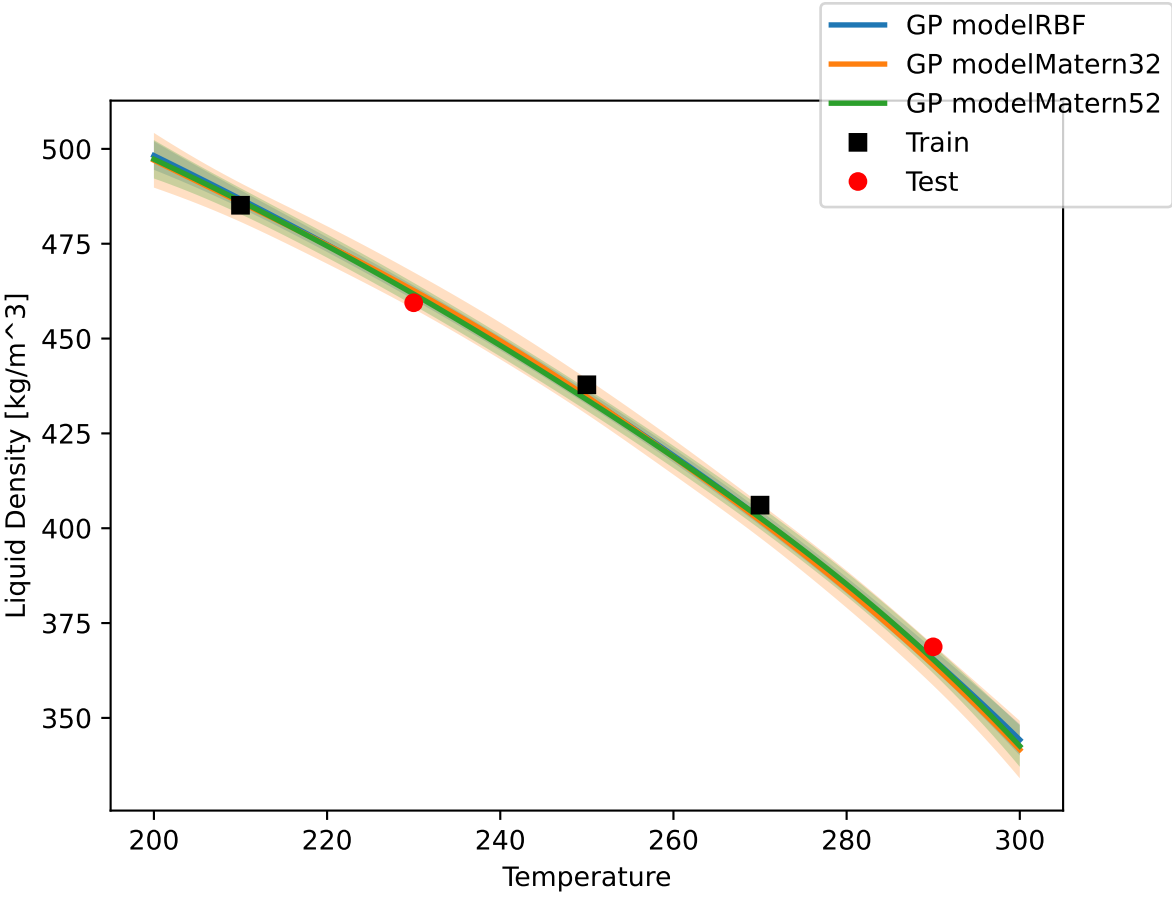
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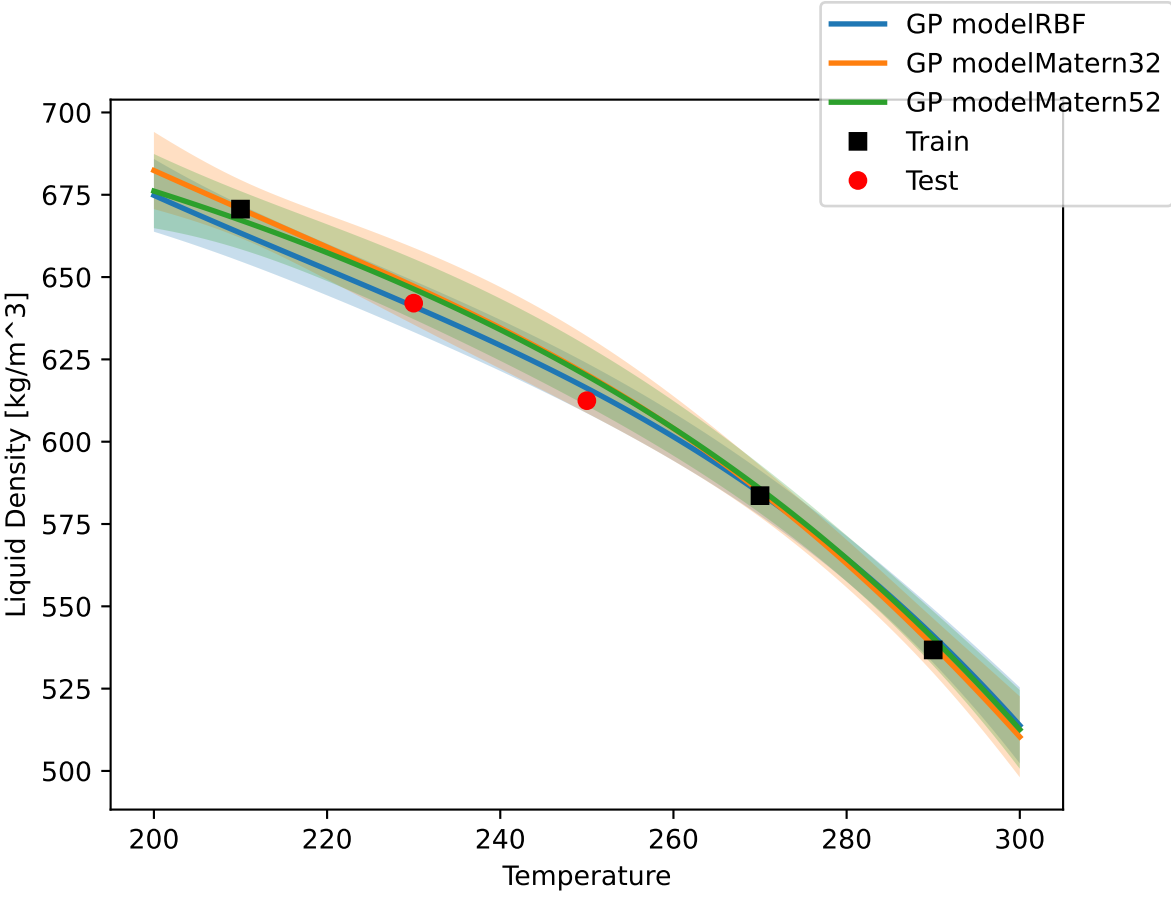
Temperature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Train
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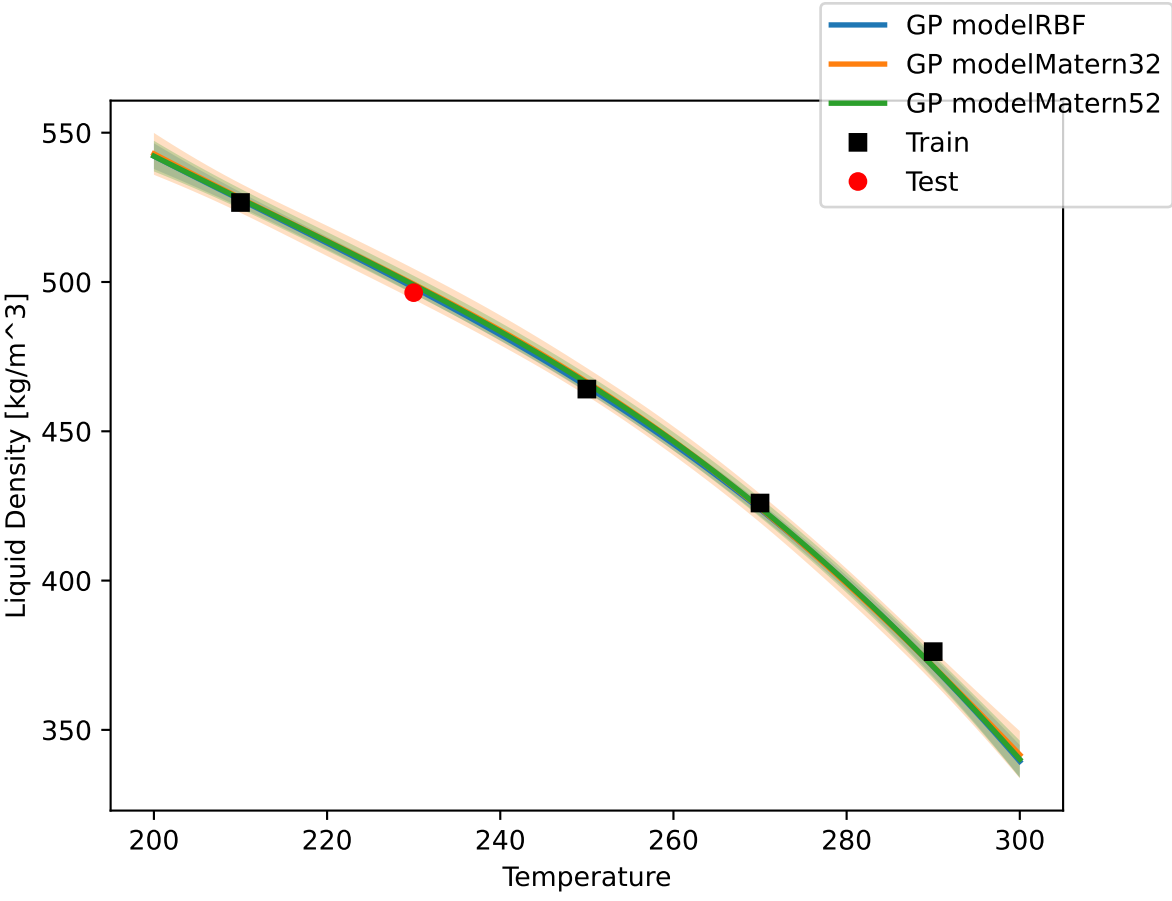
Temperature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Liquid Density [kg/m^3]
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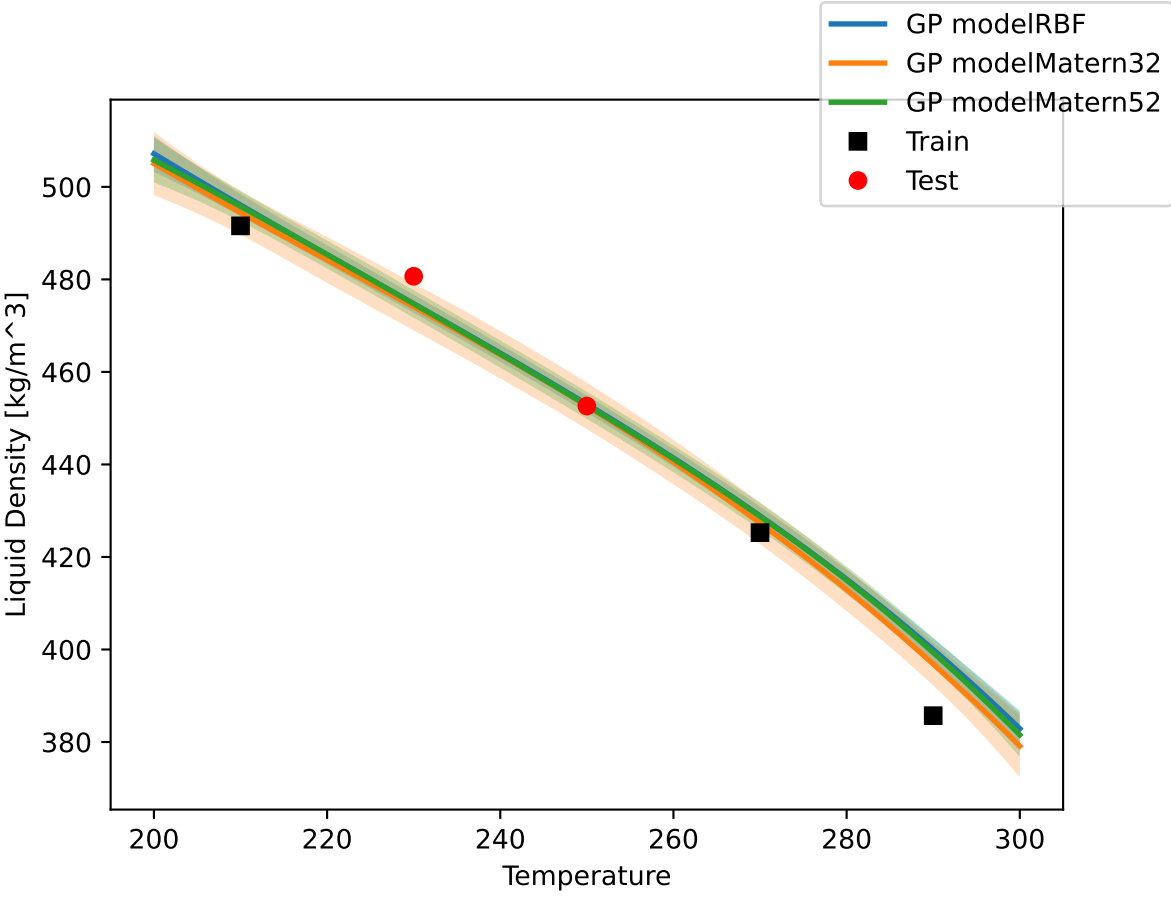
Temperature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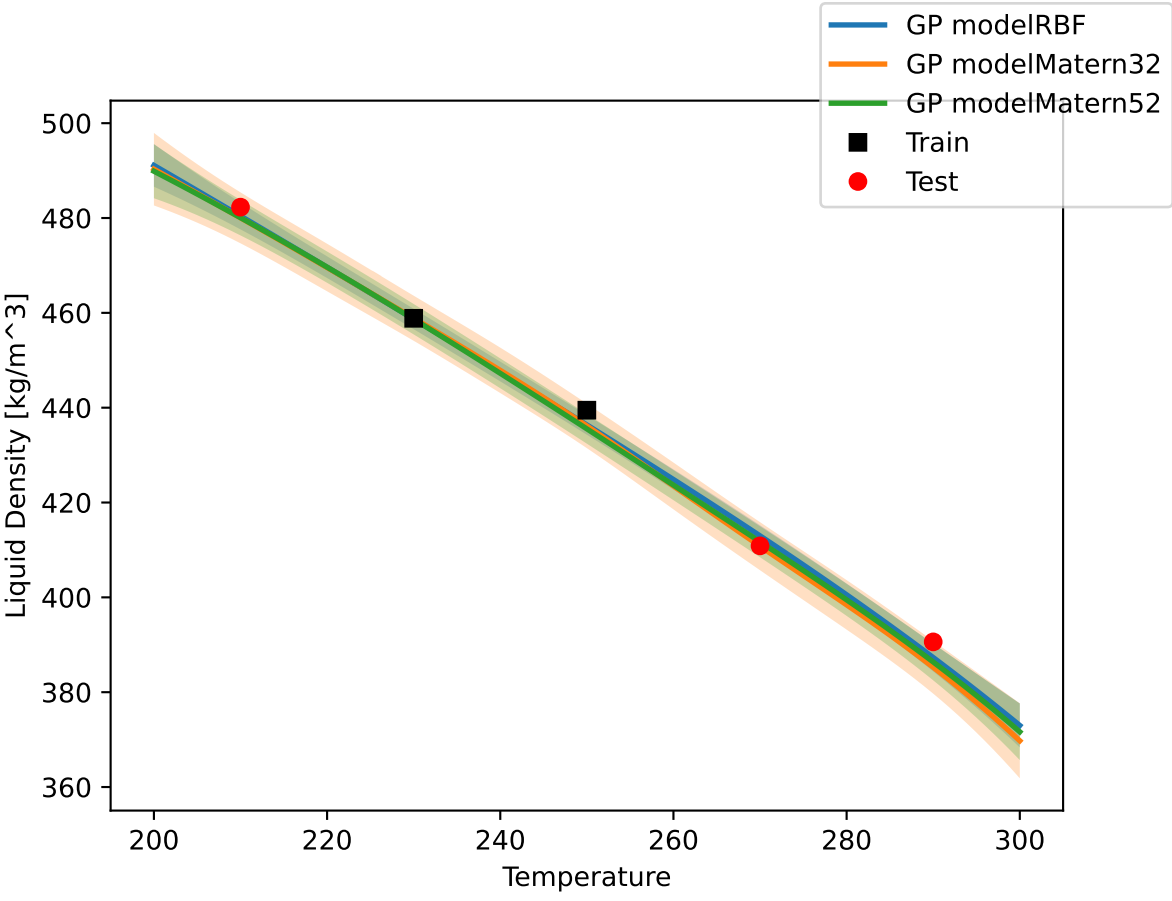
Temperature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Temperature
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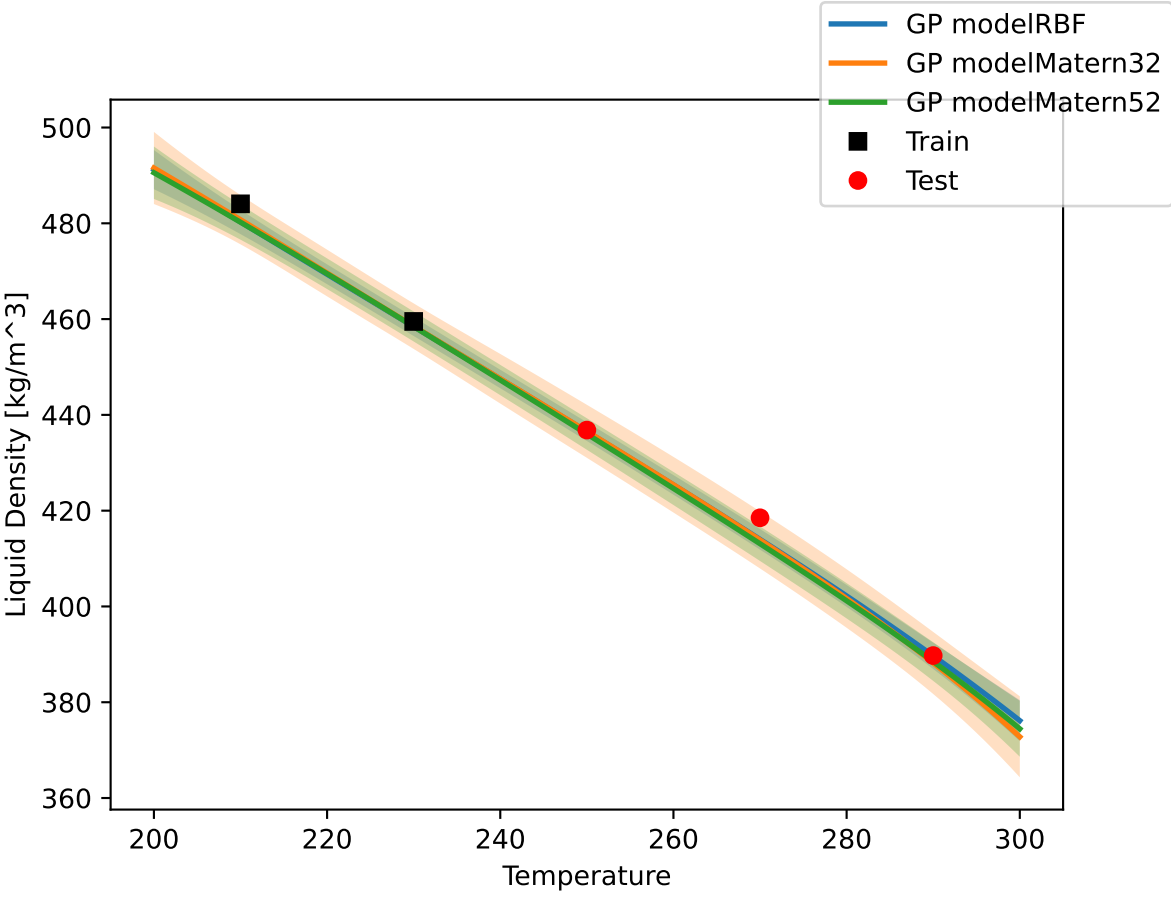
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Temperature
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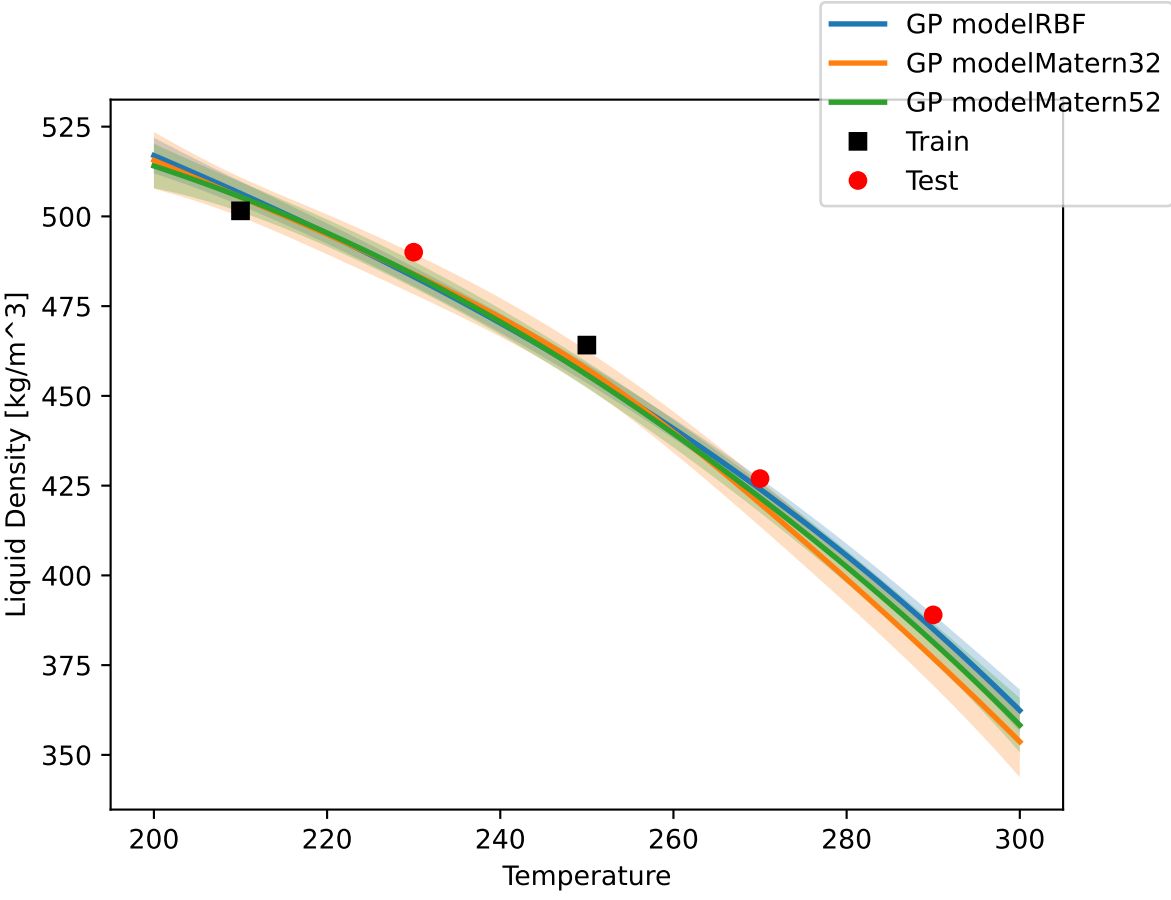
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Train
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Liquid Density [kg/m^3]
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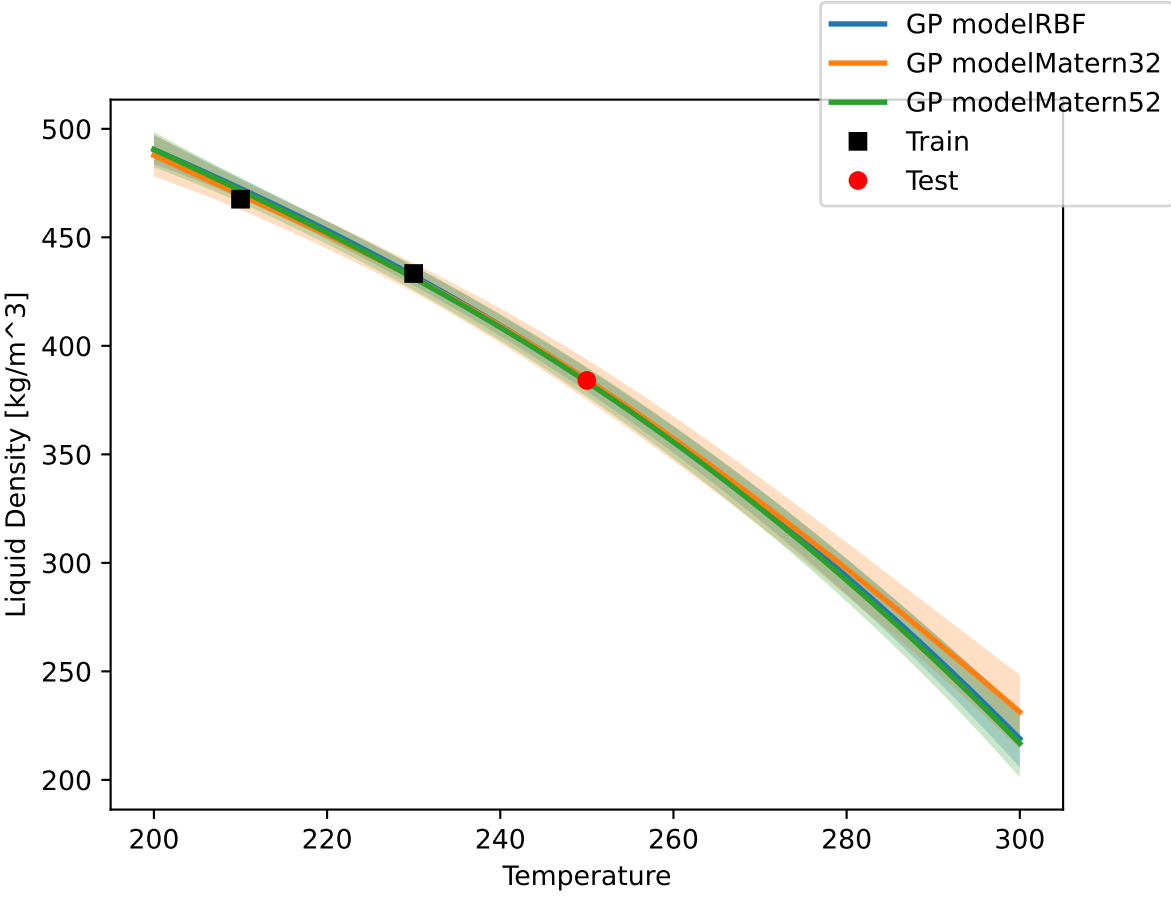
Temperature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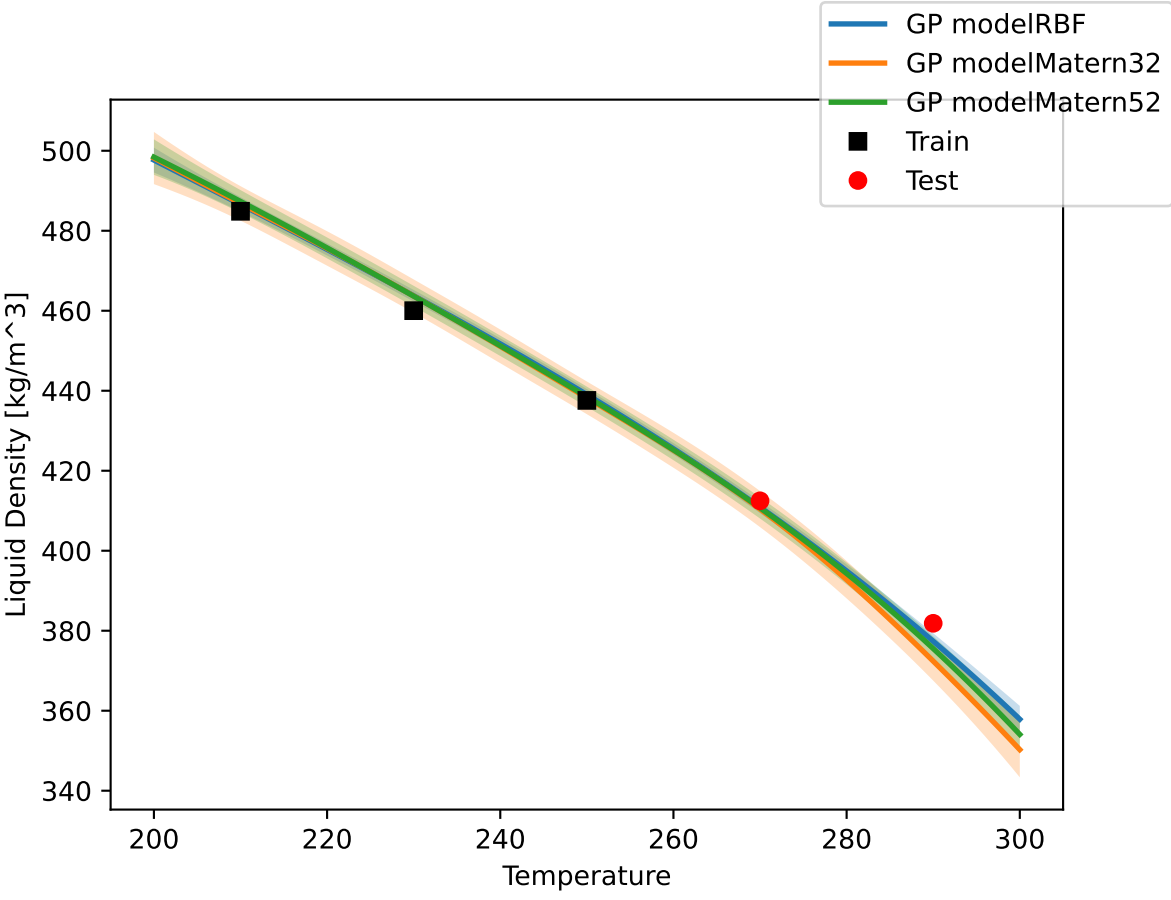
Temperature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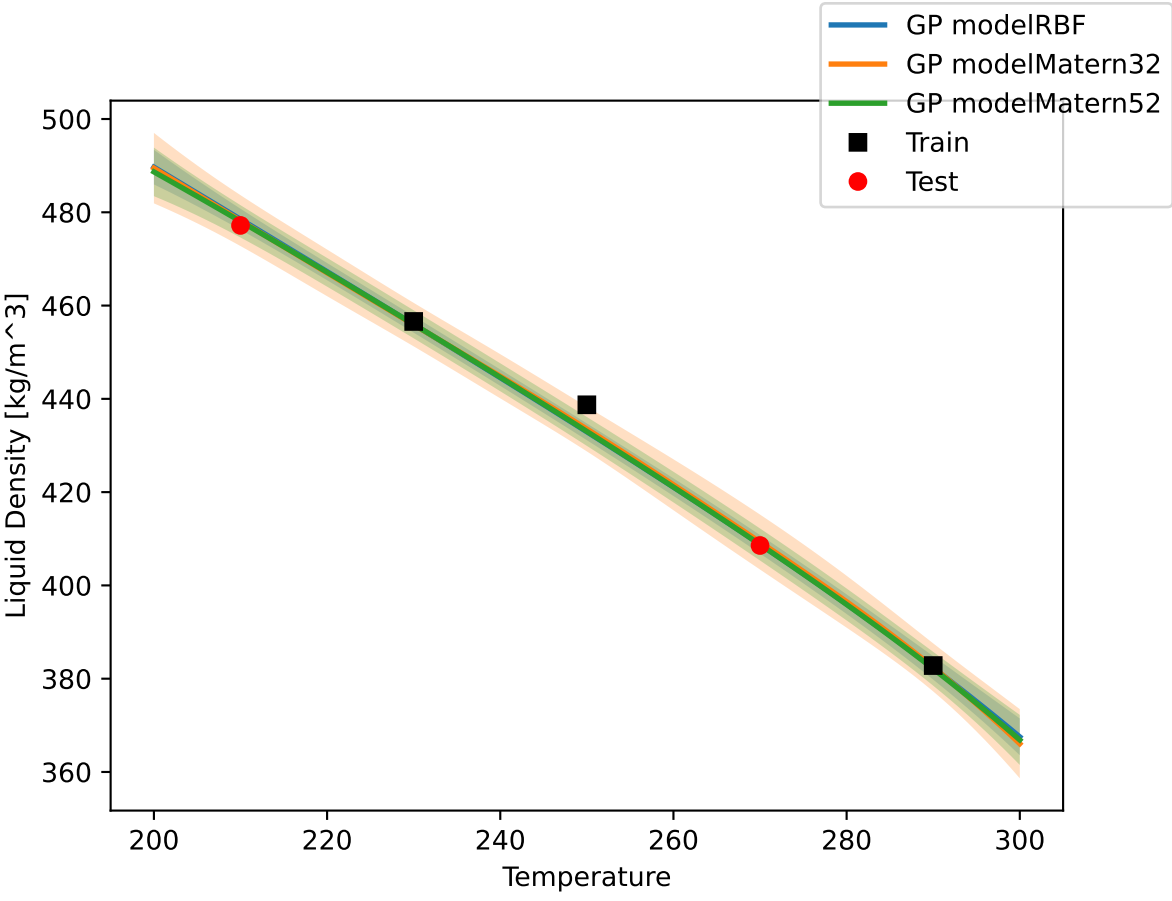
Temperature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Liquid Density [kg/m^3]
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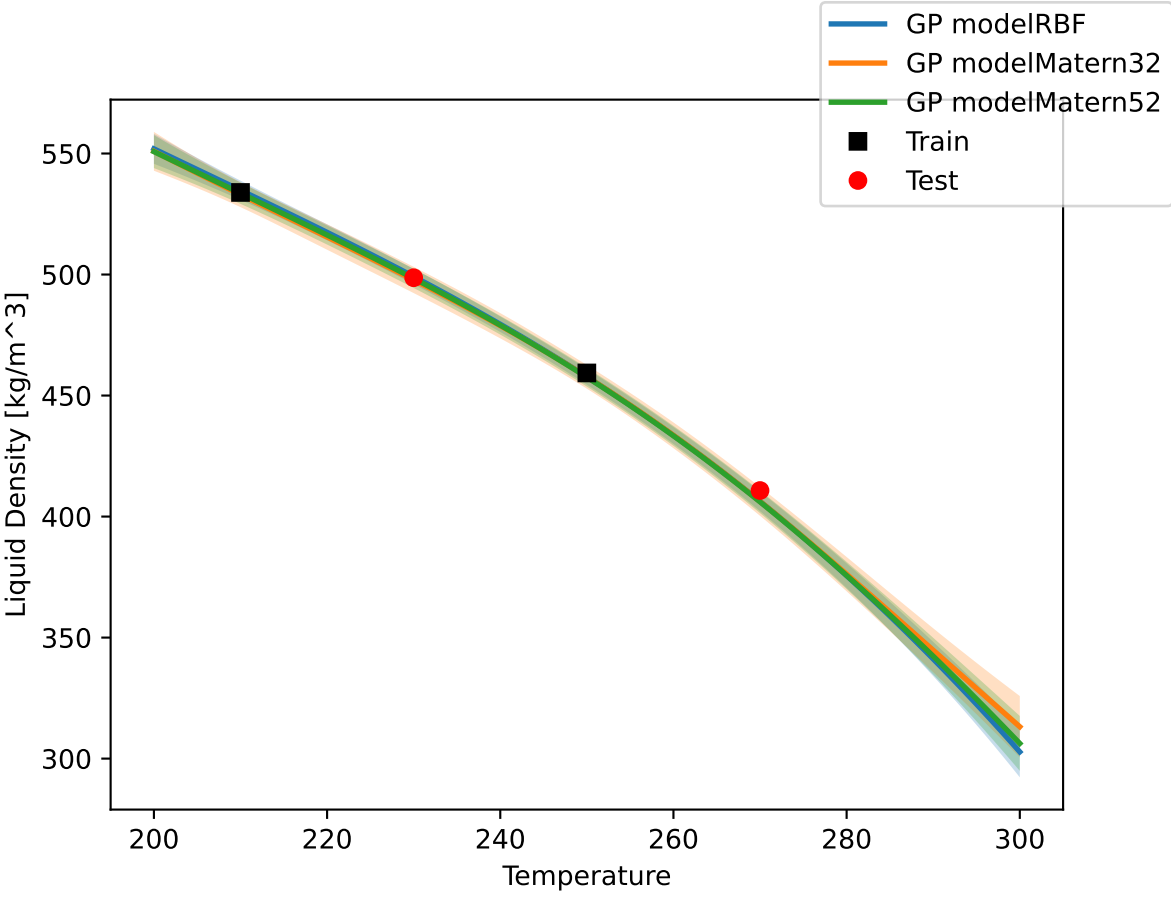
Temperature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Liquid Density [kg/m^3]
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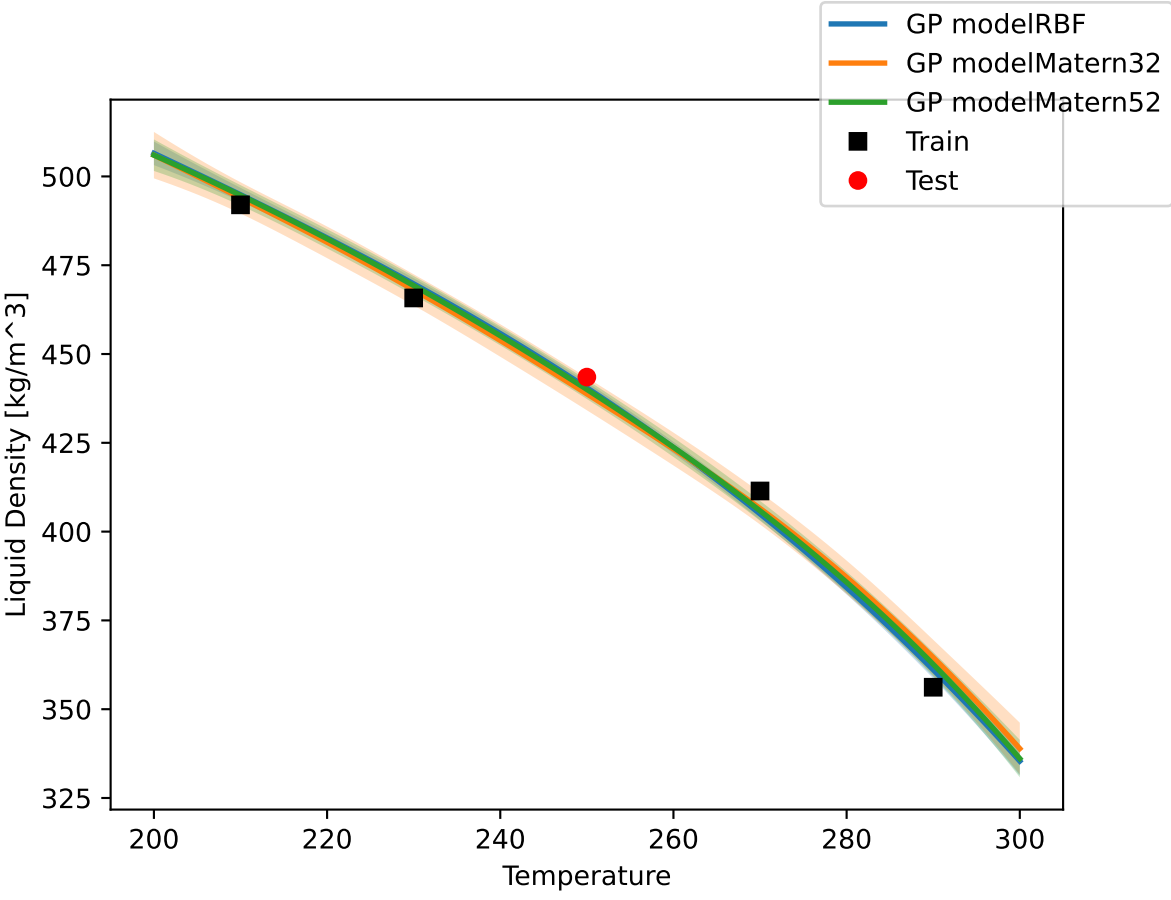
Temperature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Train
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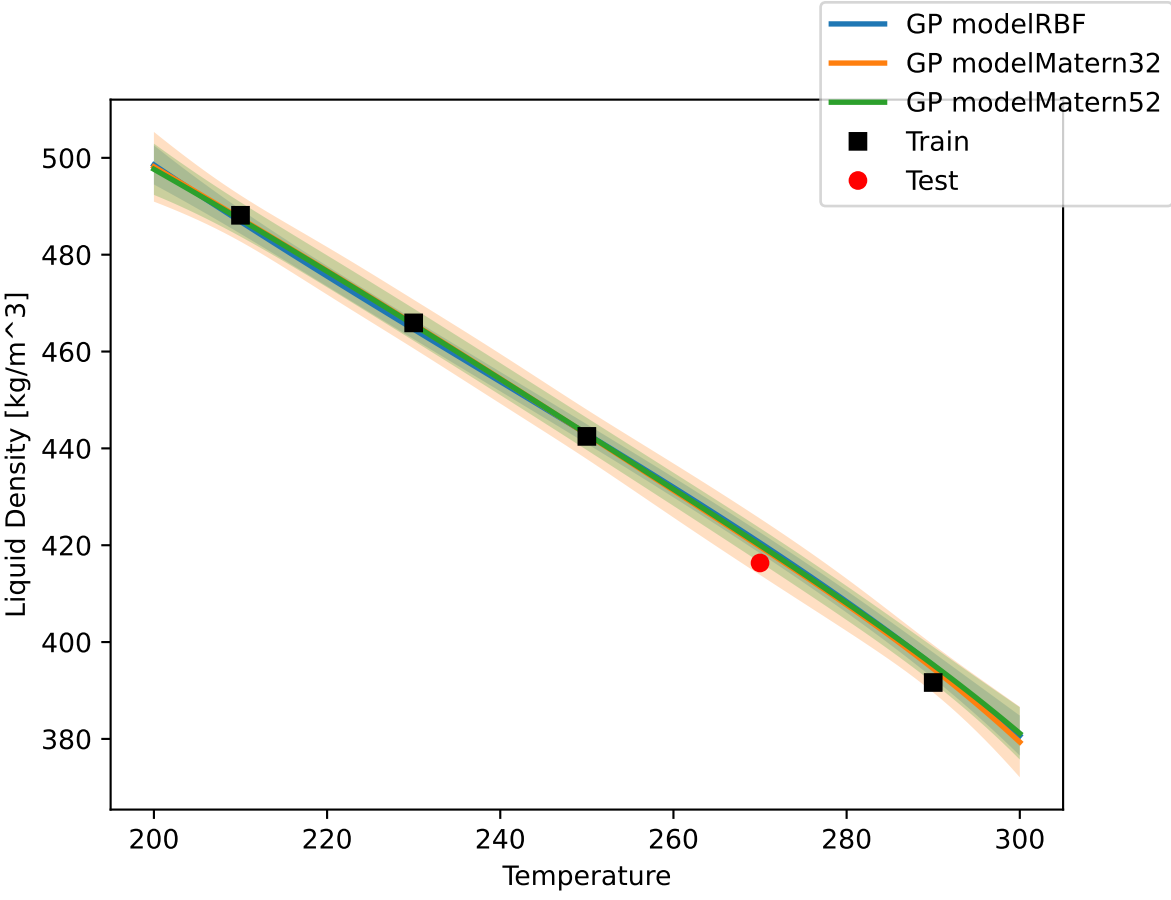
Temperature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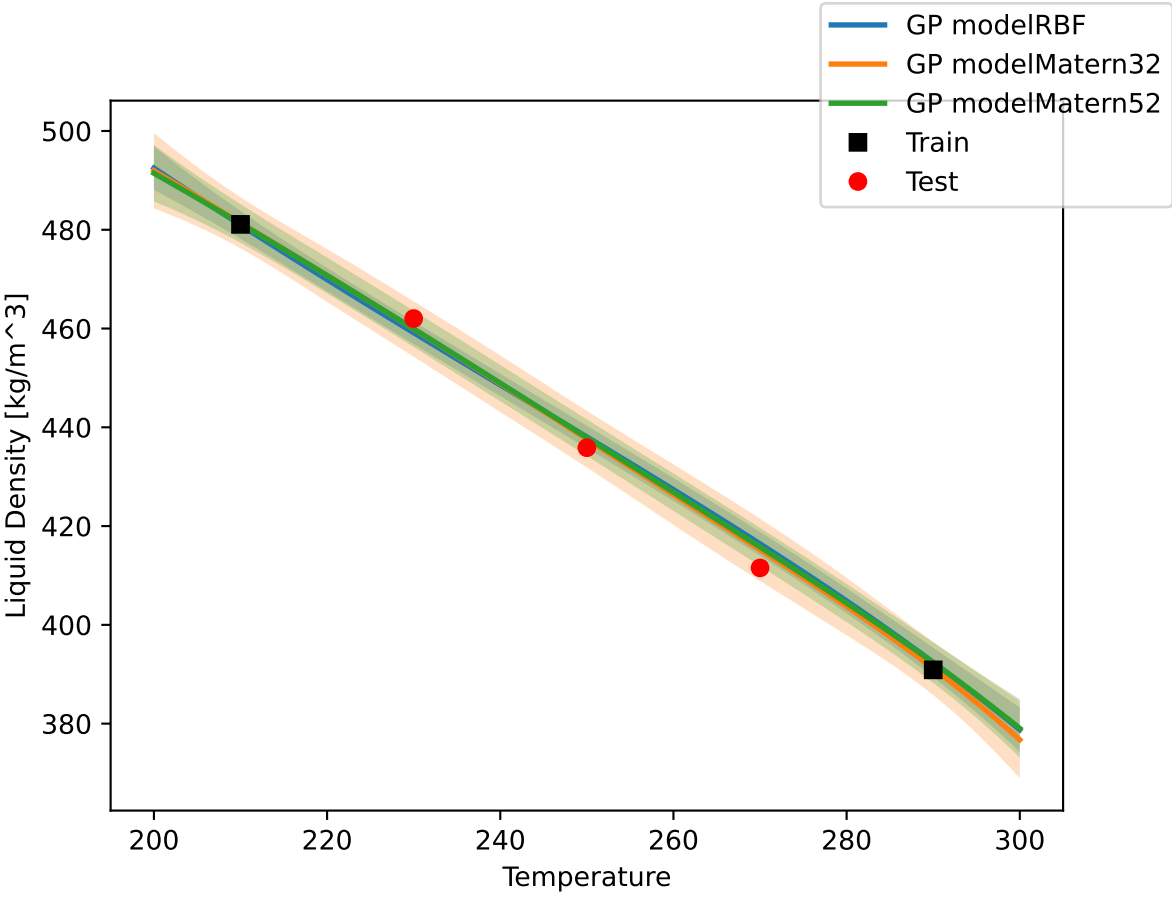
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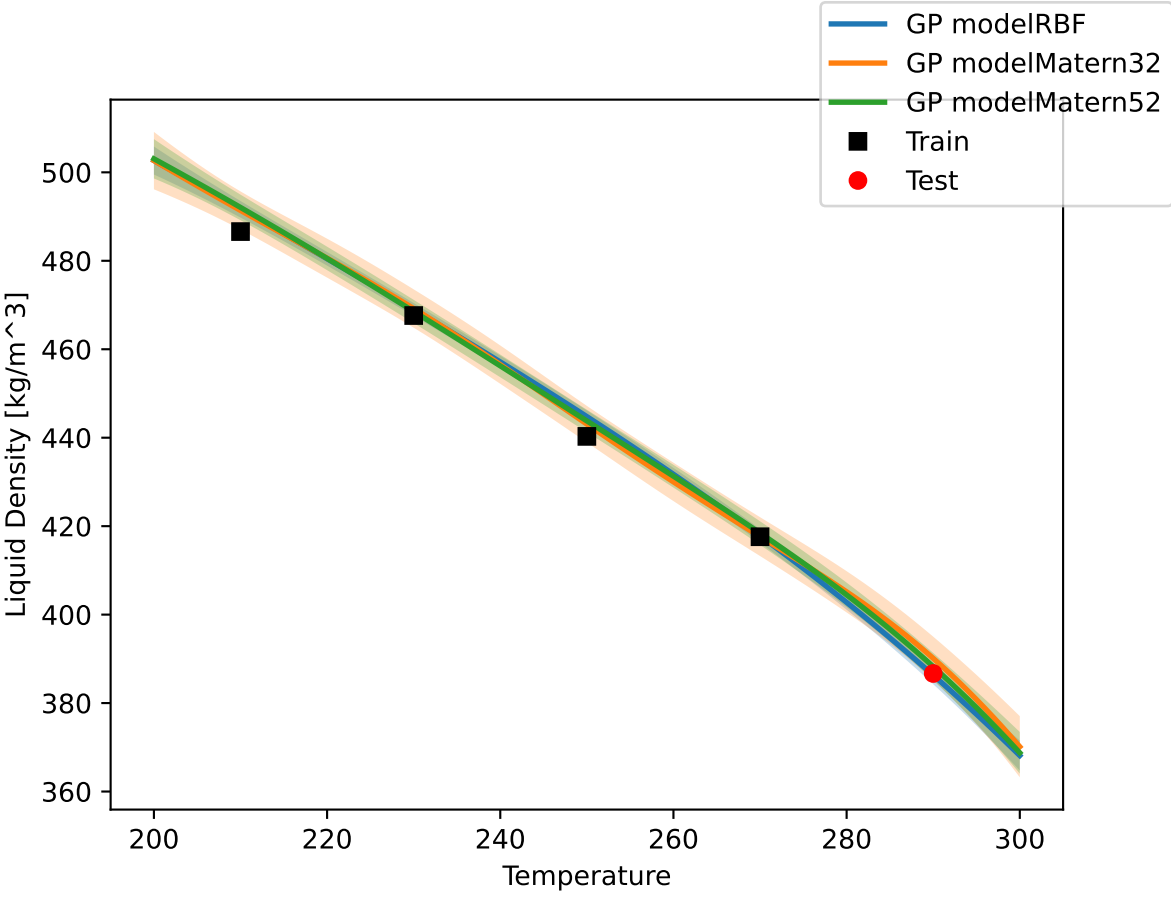
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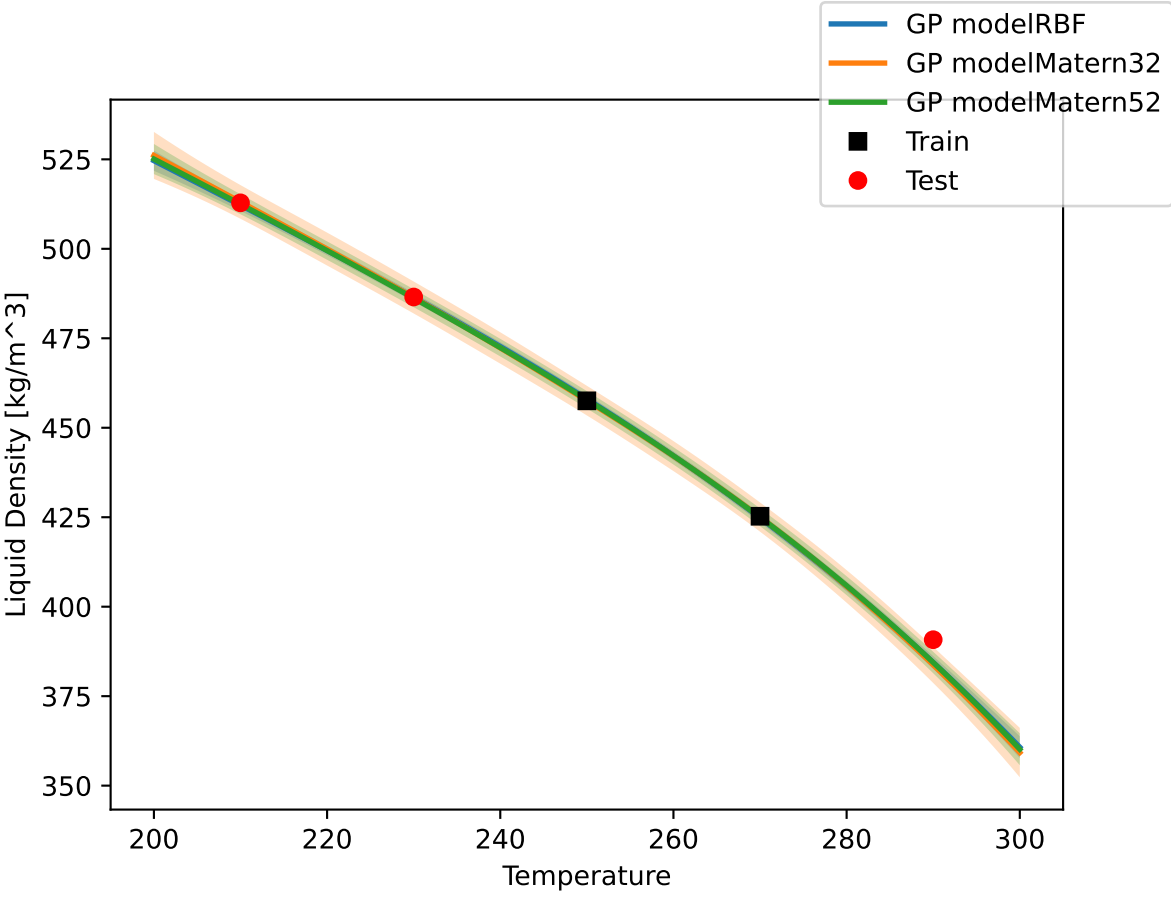
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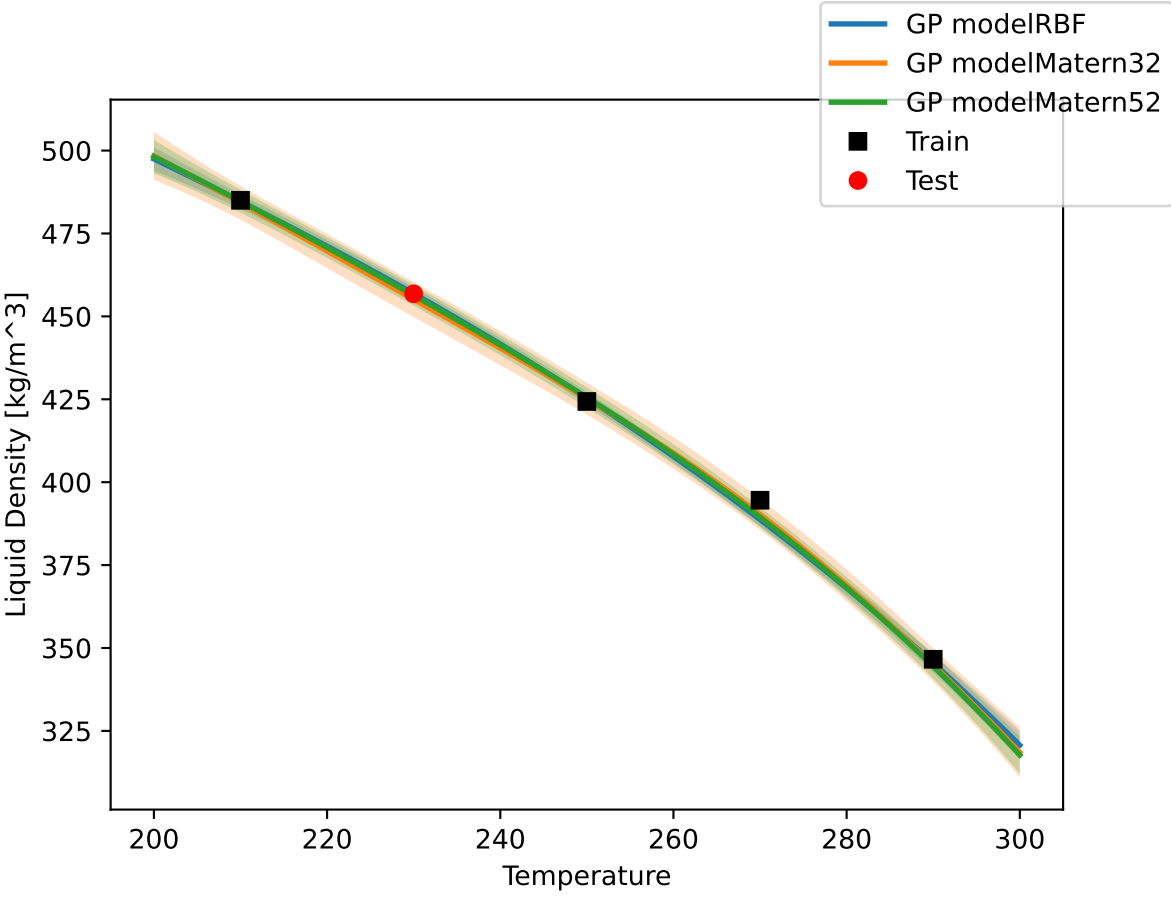
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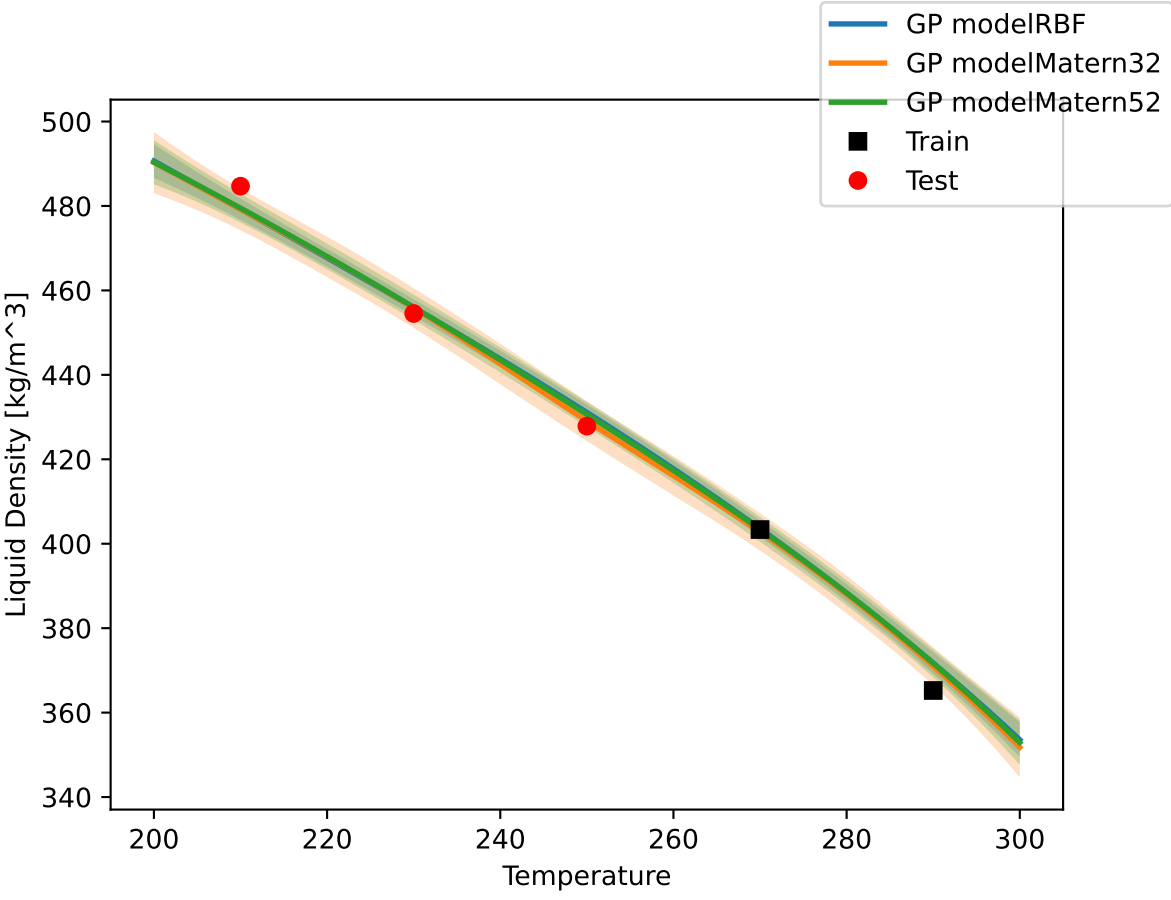
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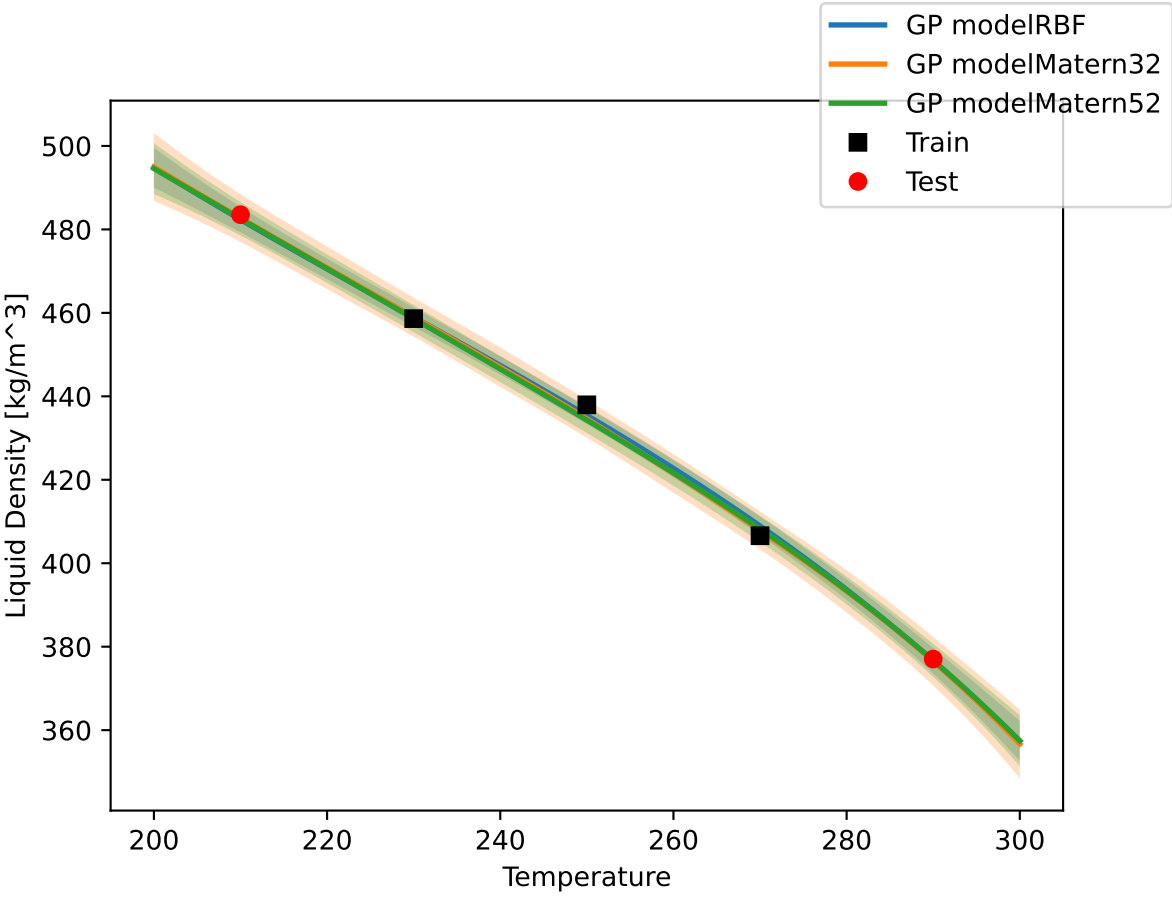
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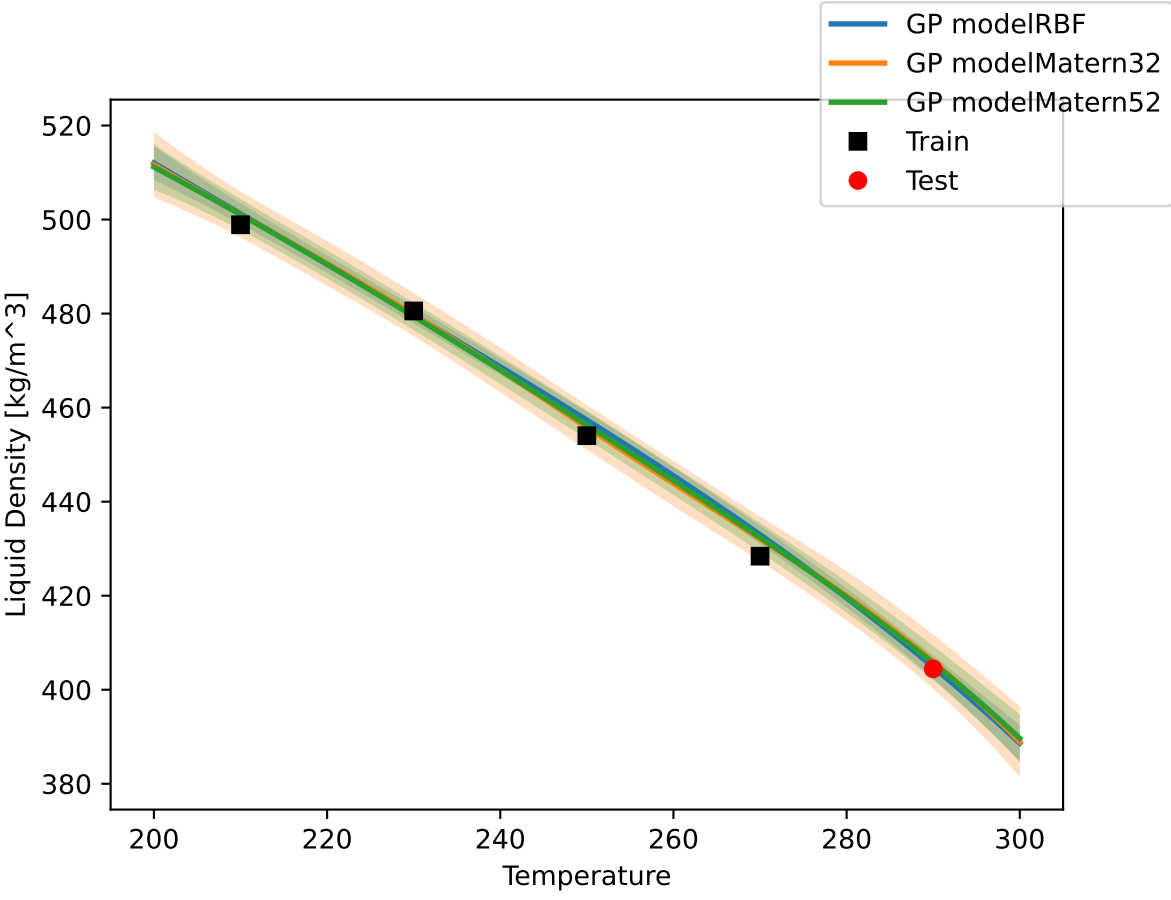
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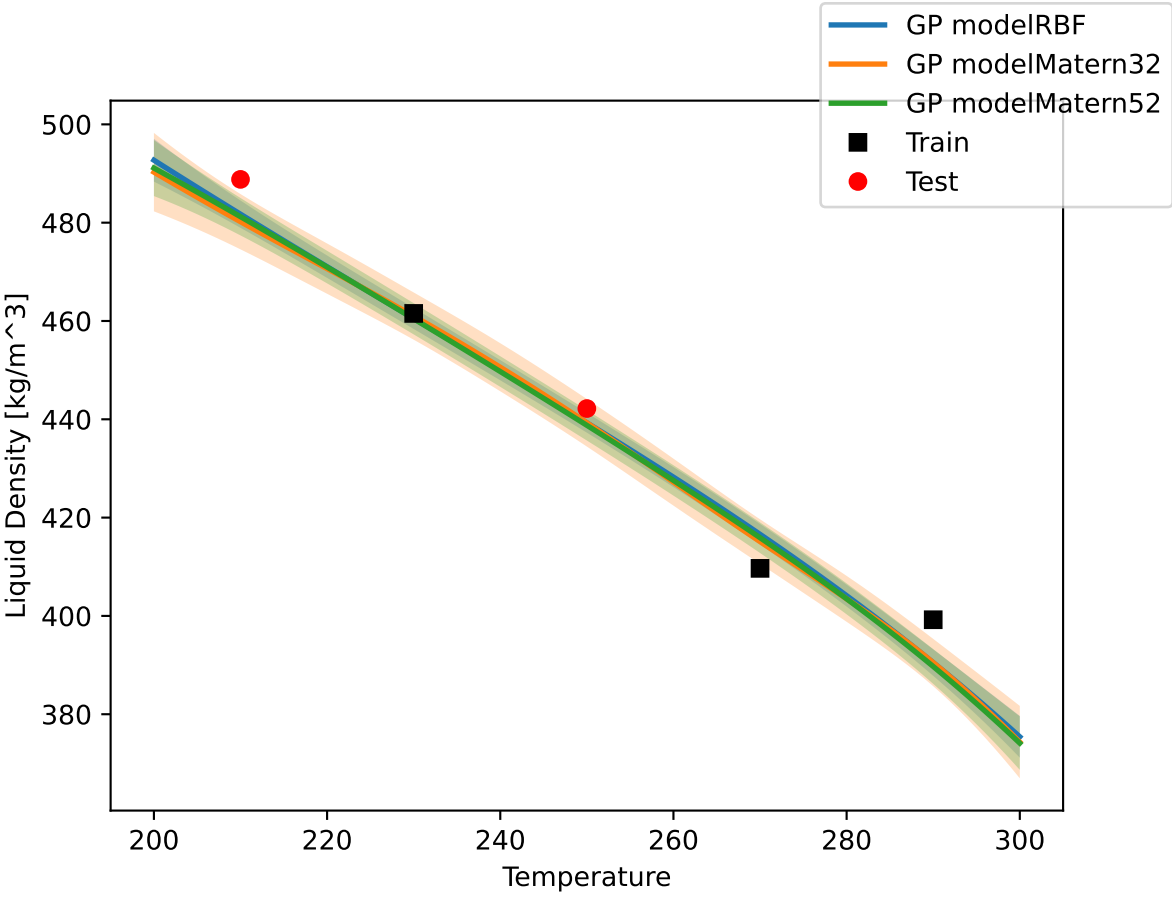
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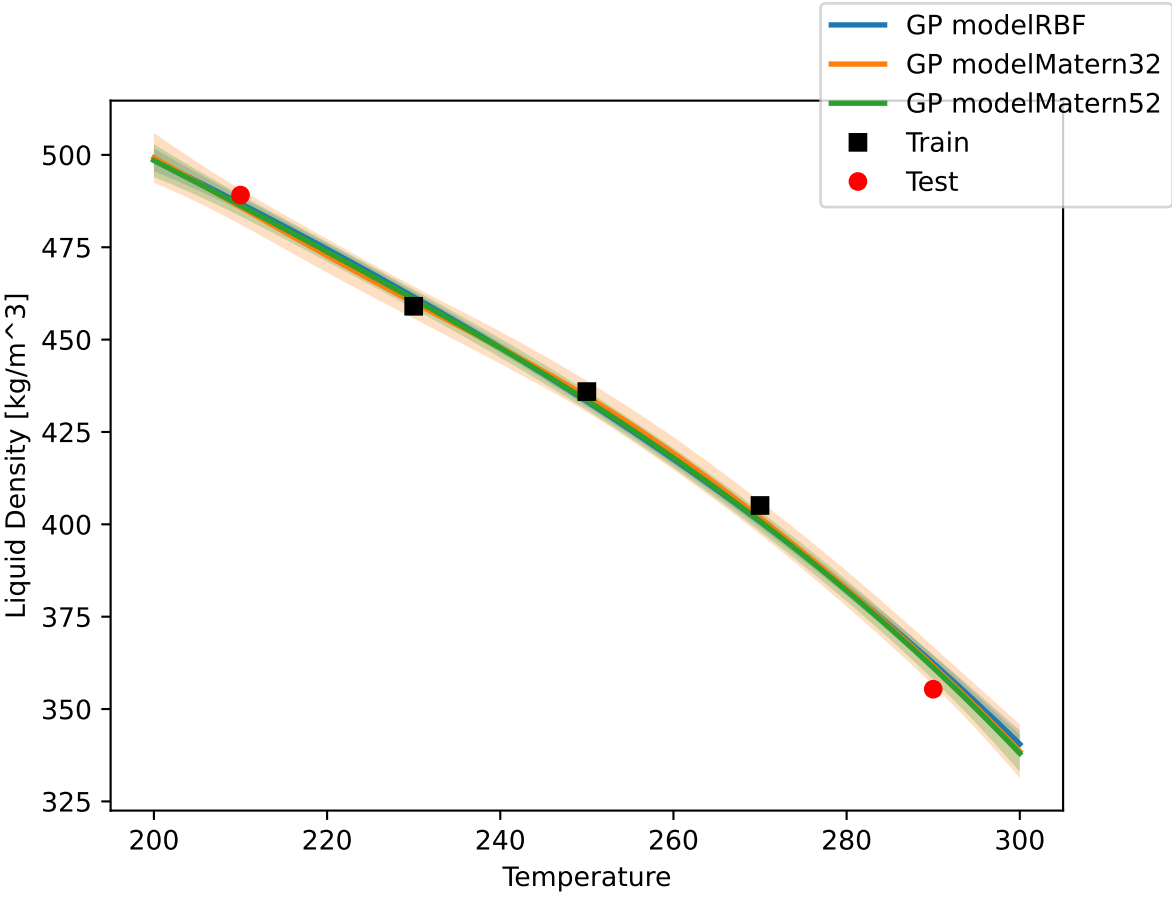
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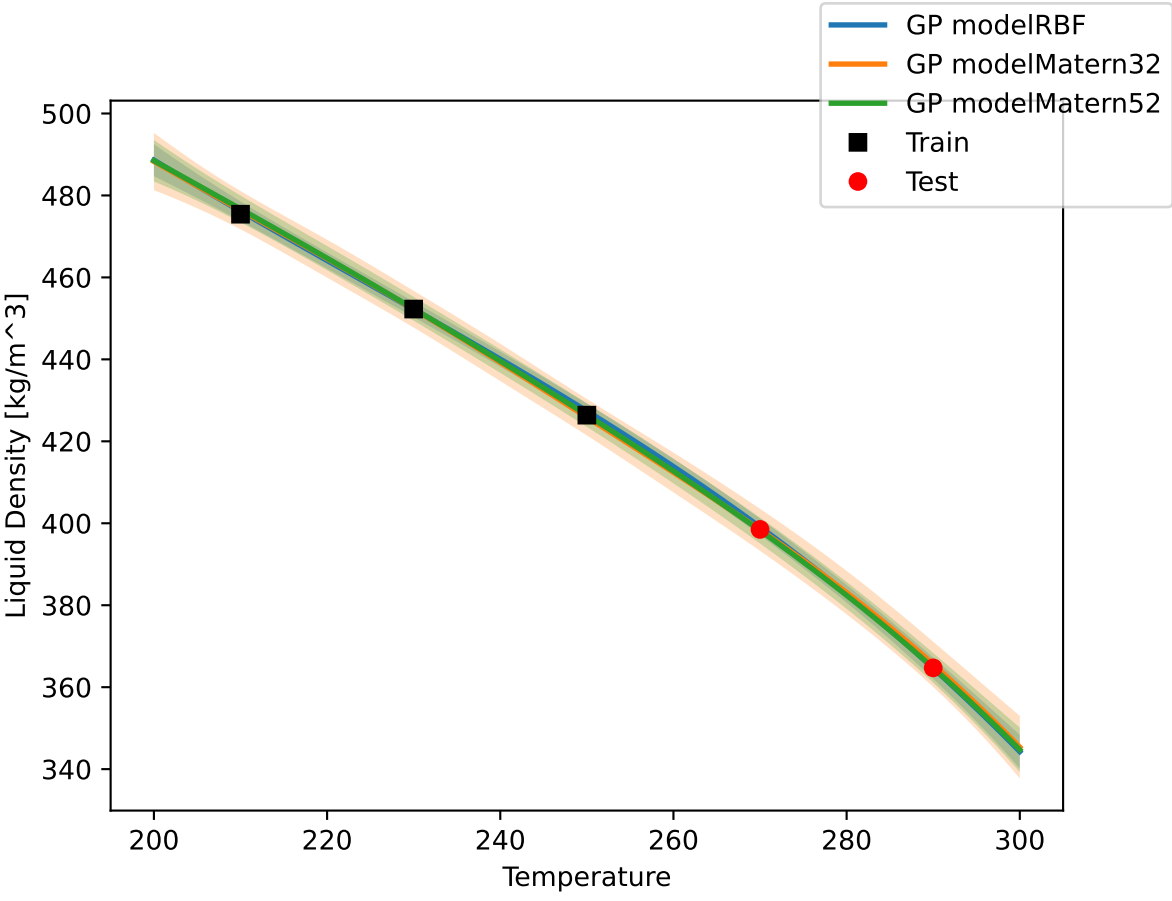
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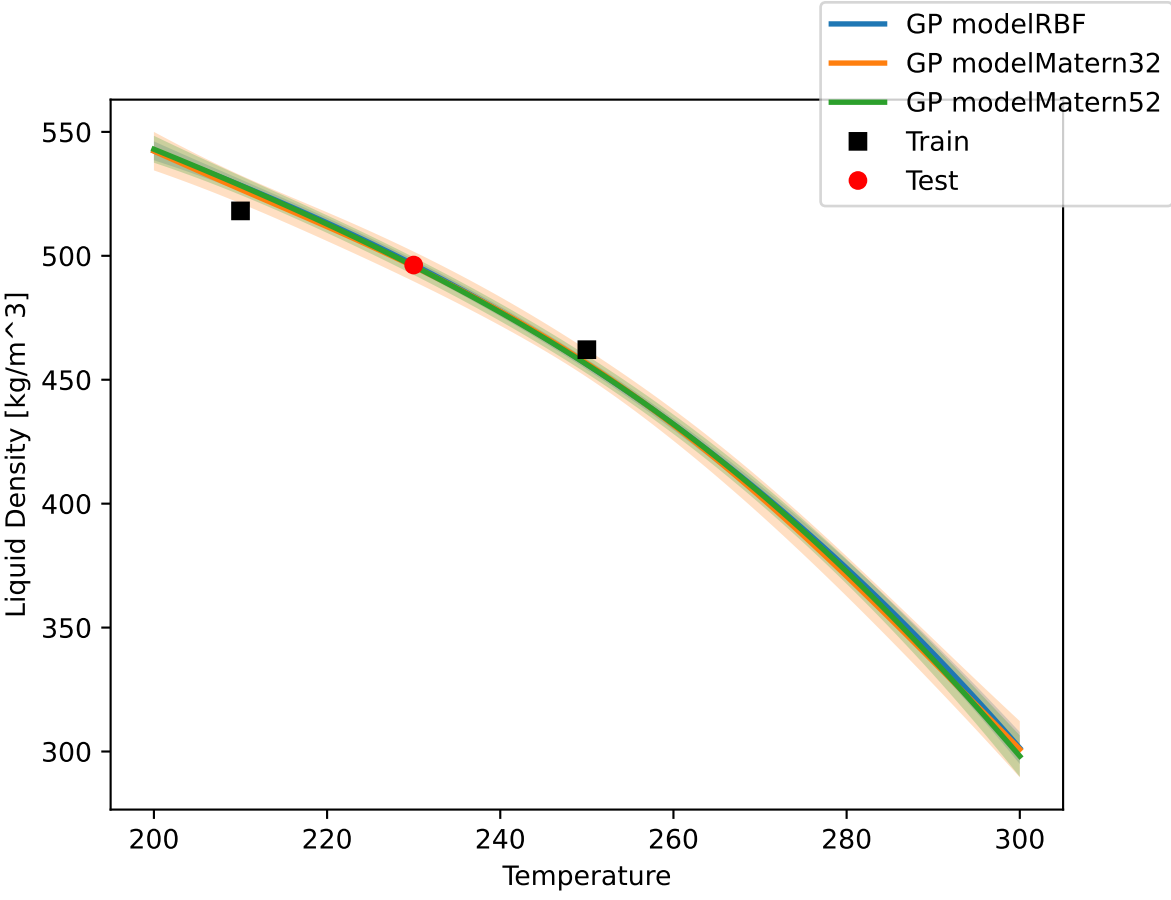
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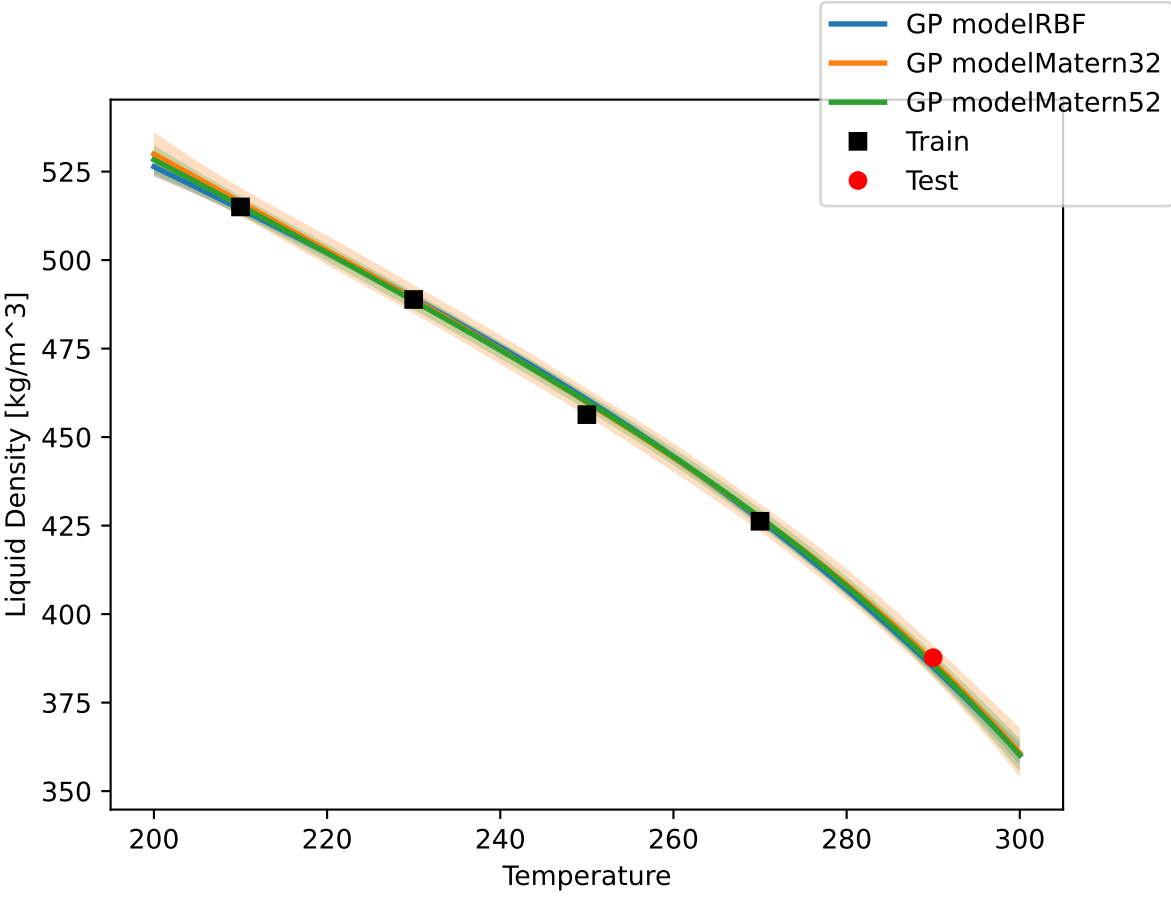
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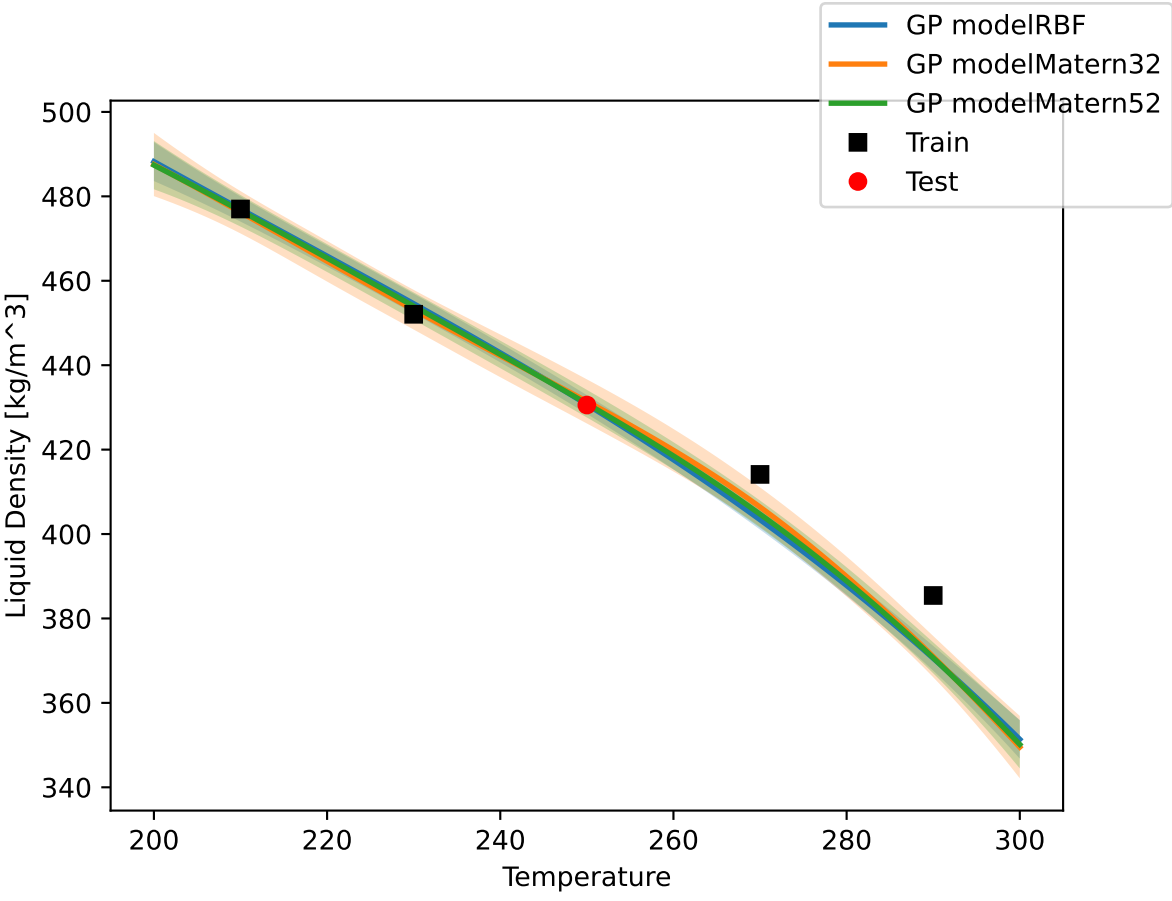
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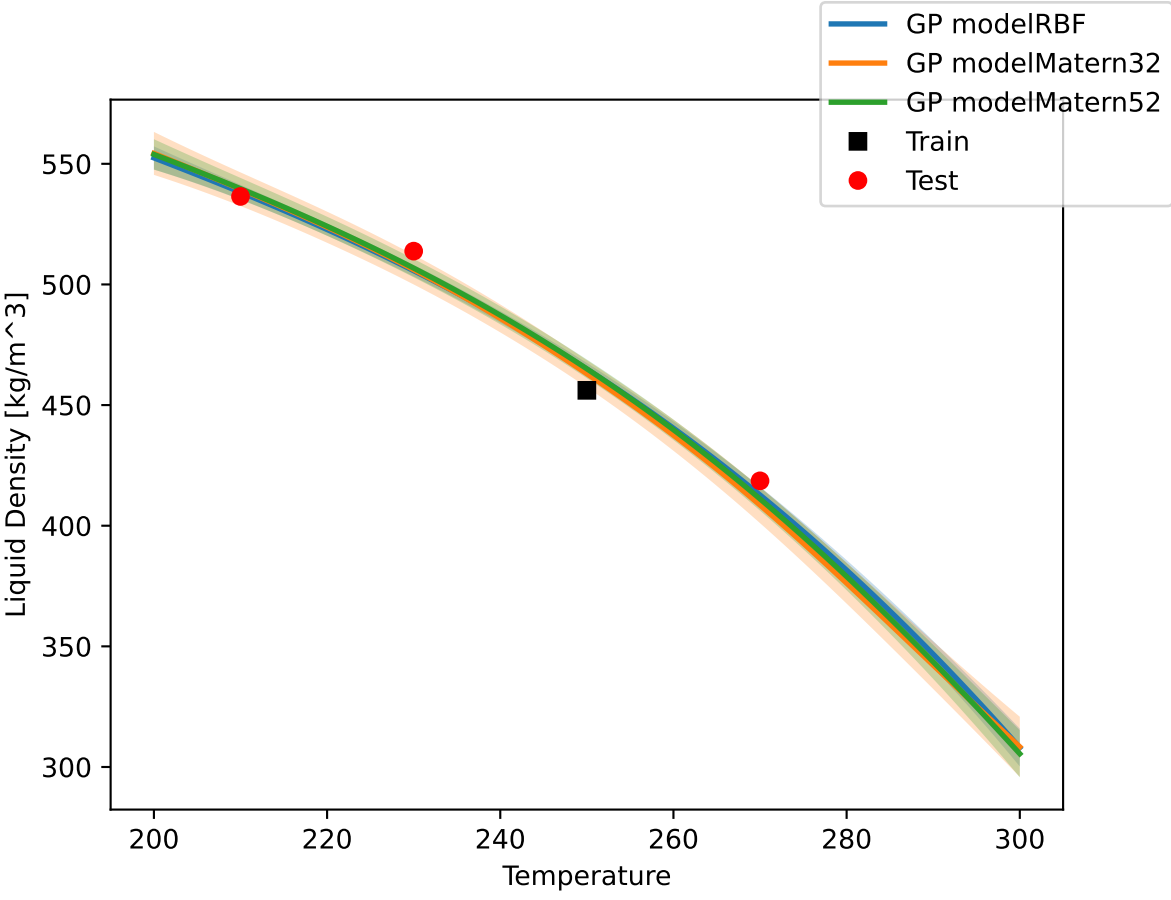
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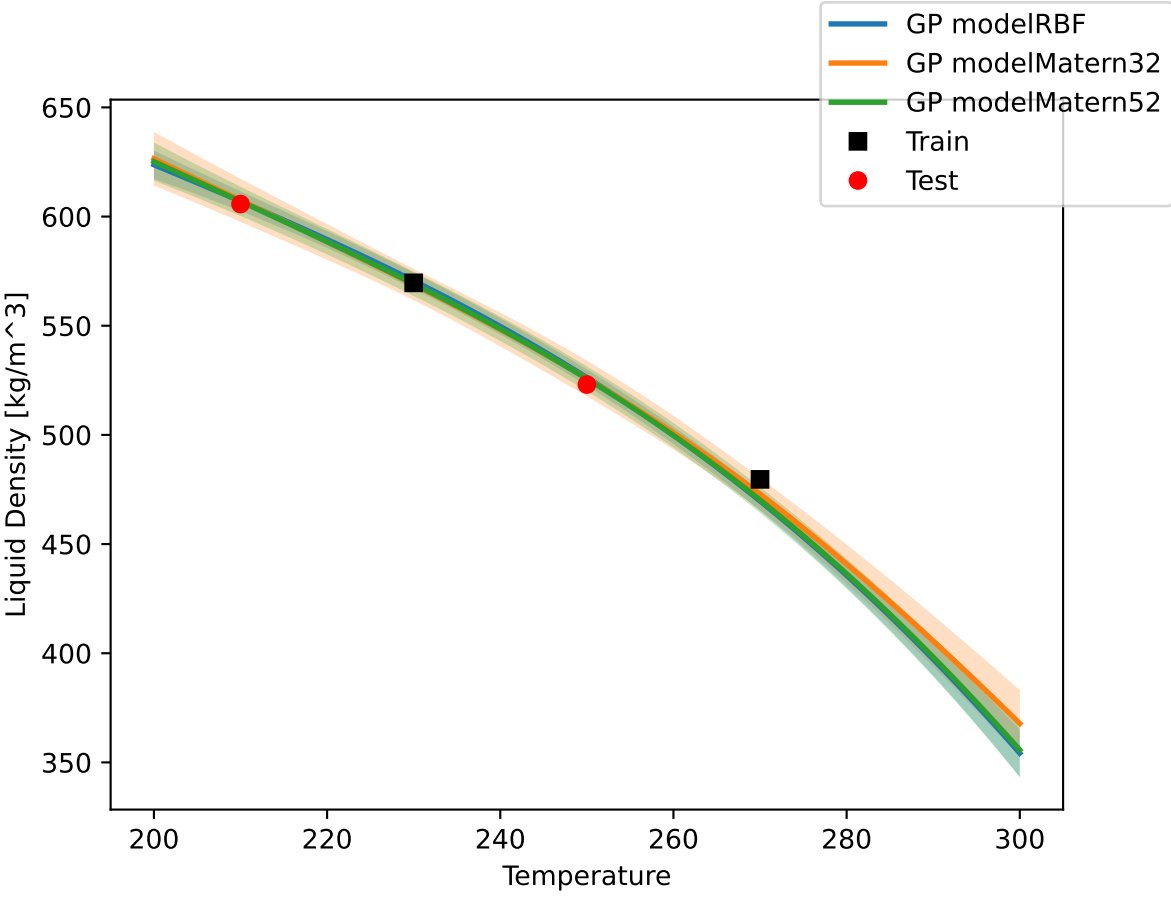
Temperature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Liquid Density [kg/m^3]
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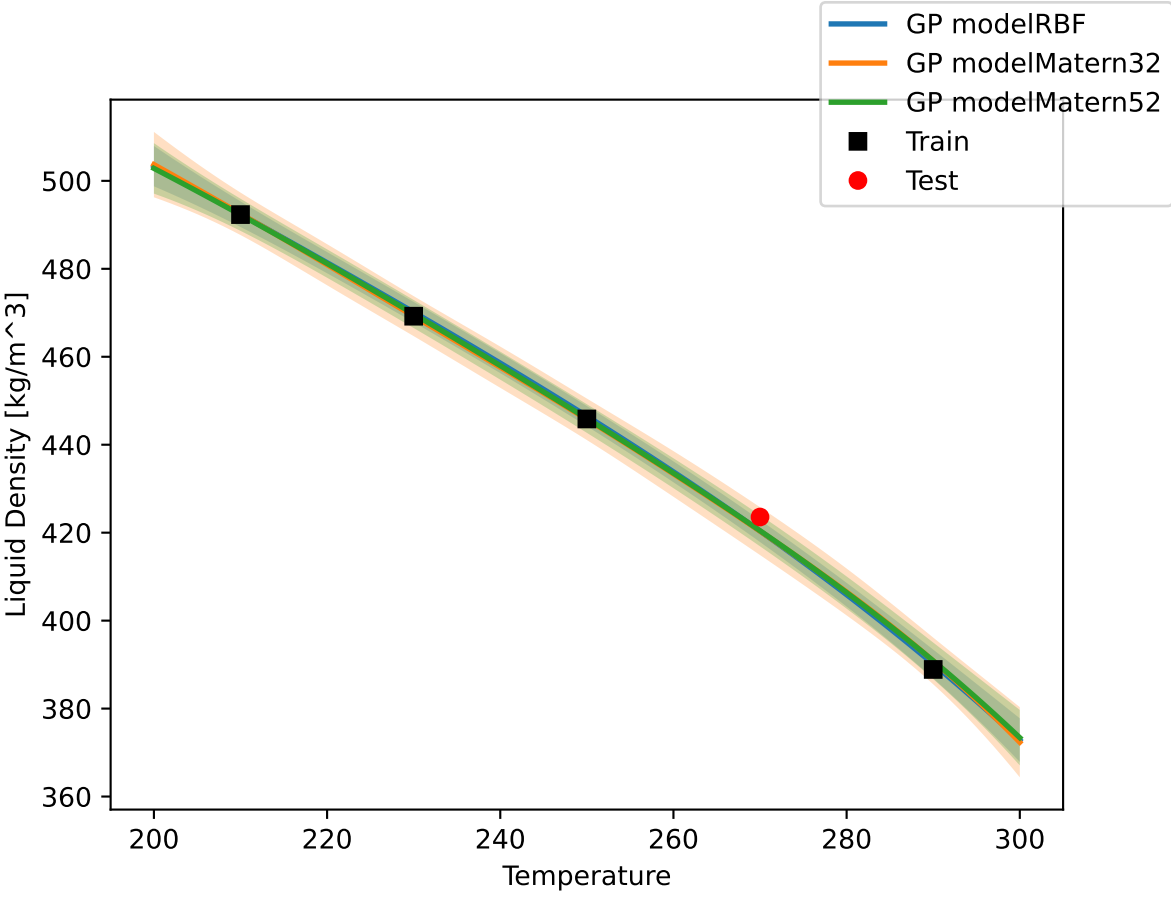
Temperature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Temperature
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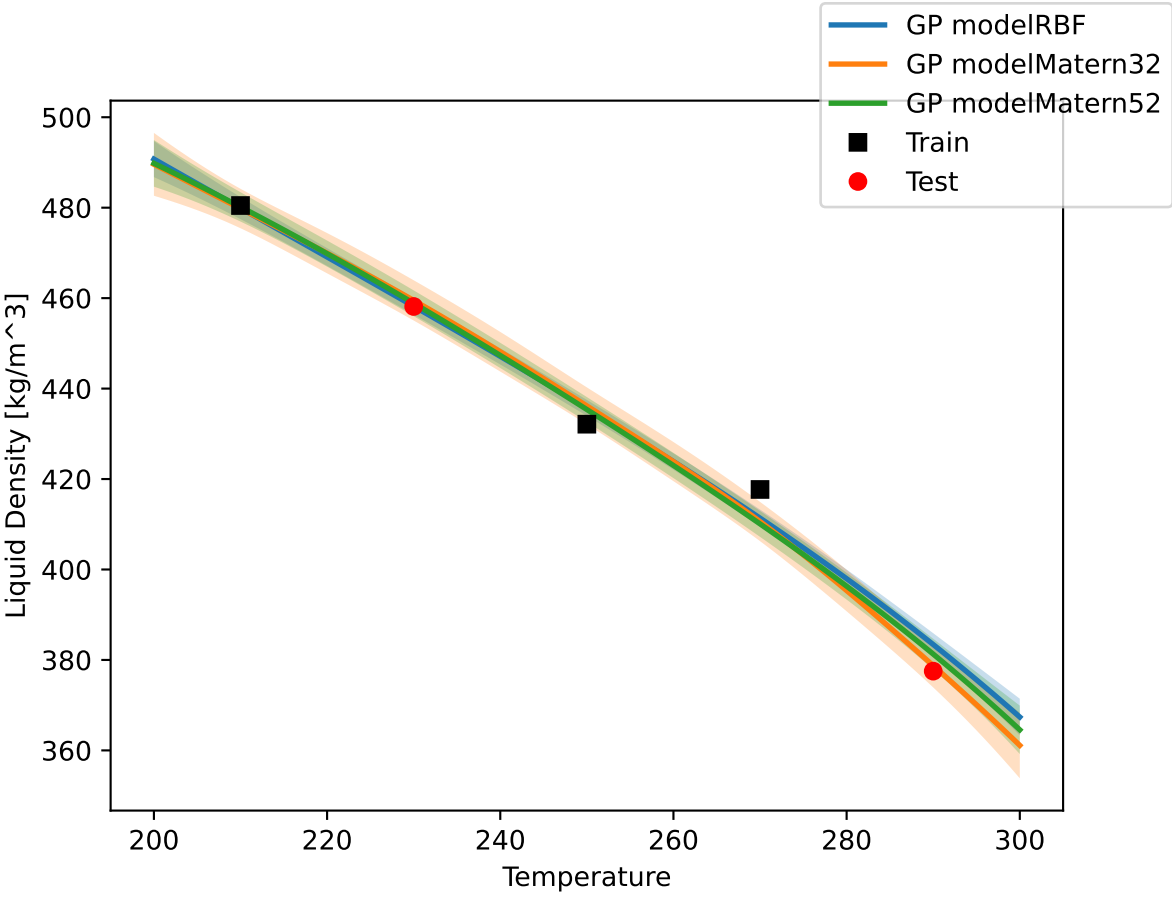
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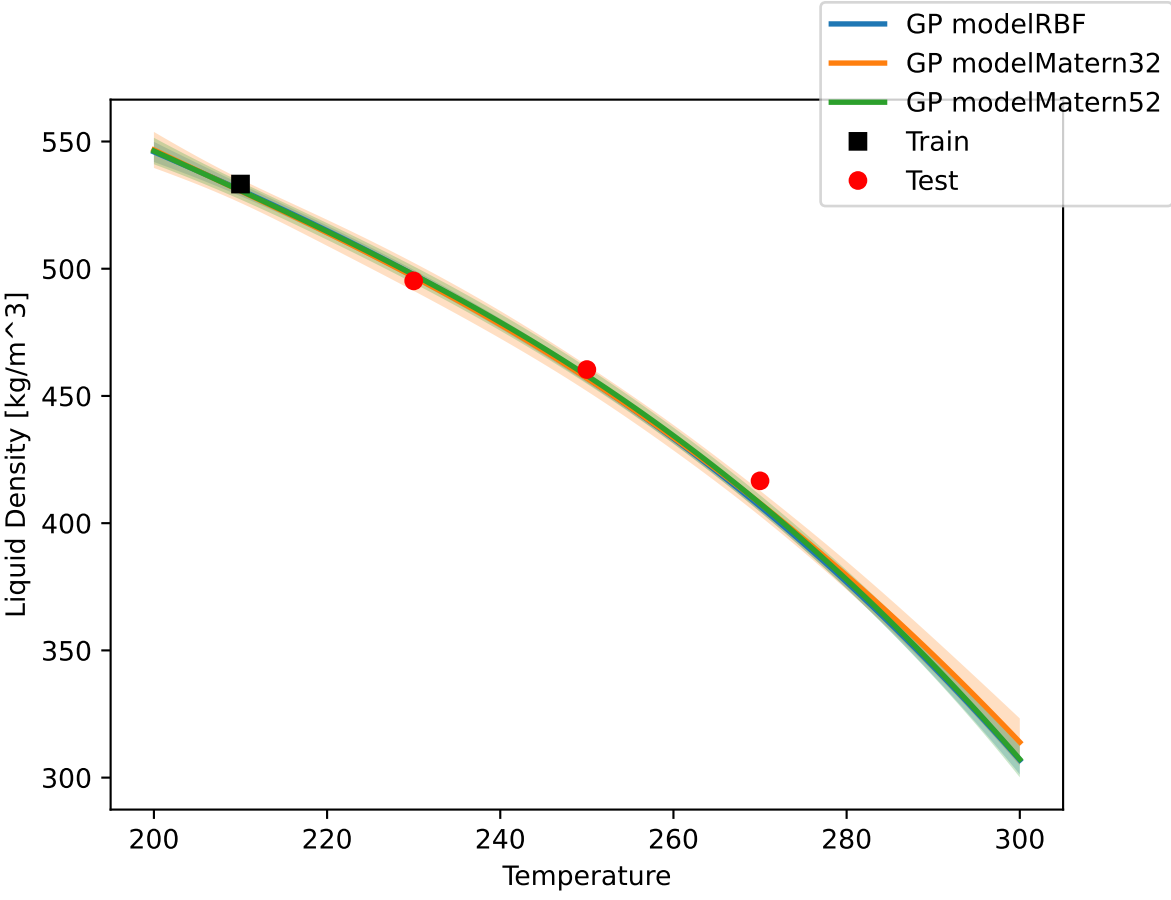
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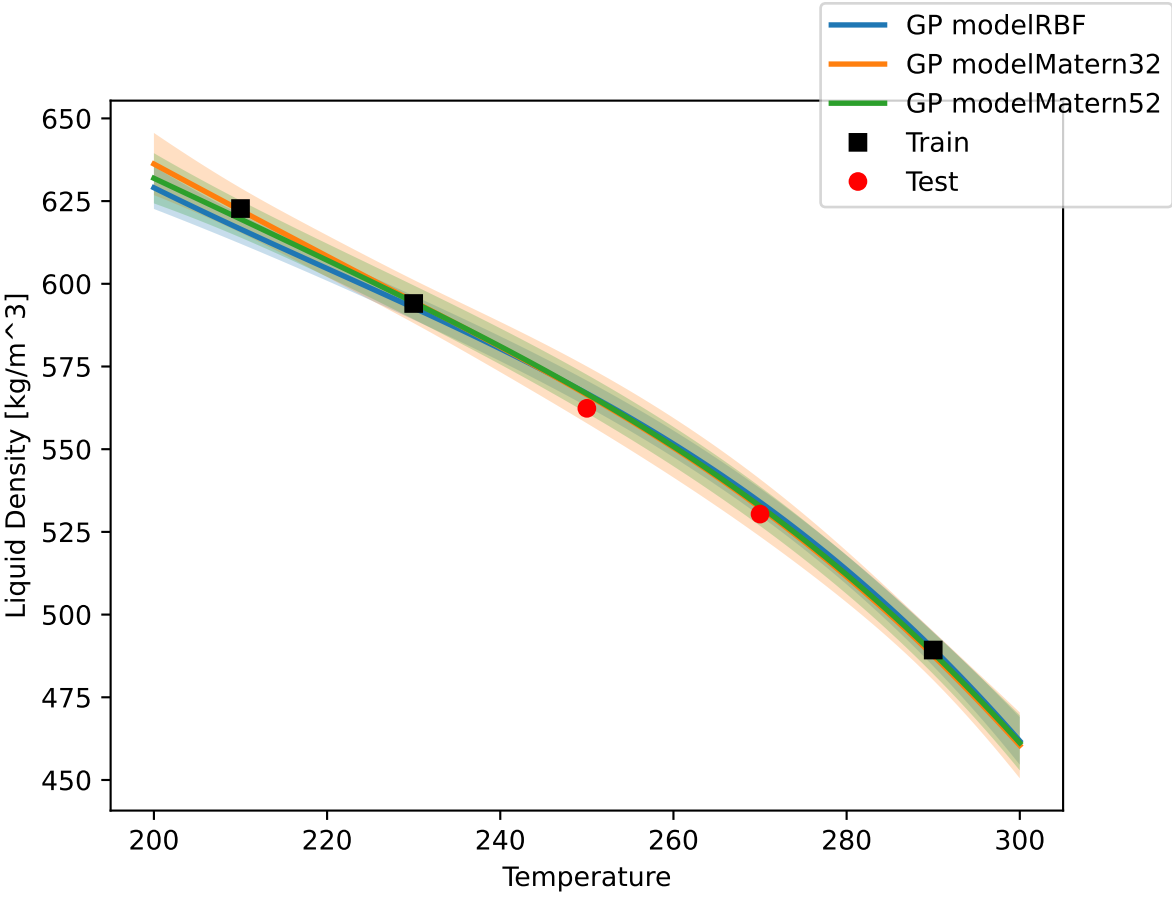
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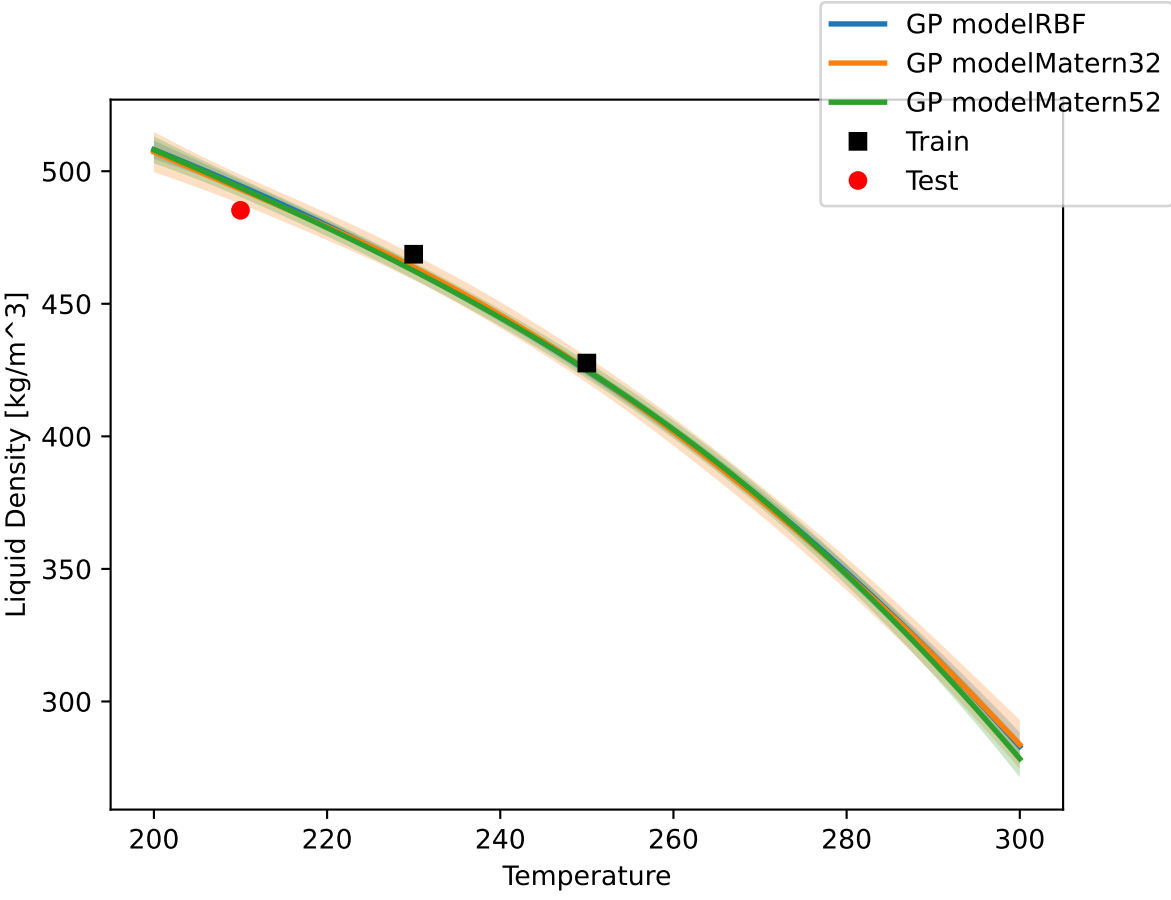
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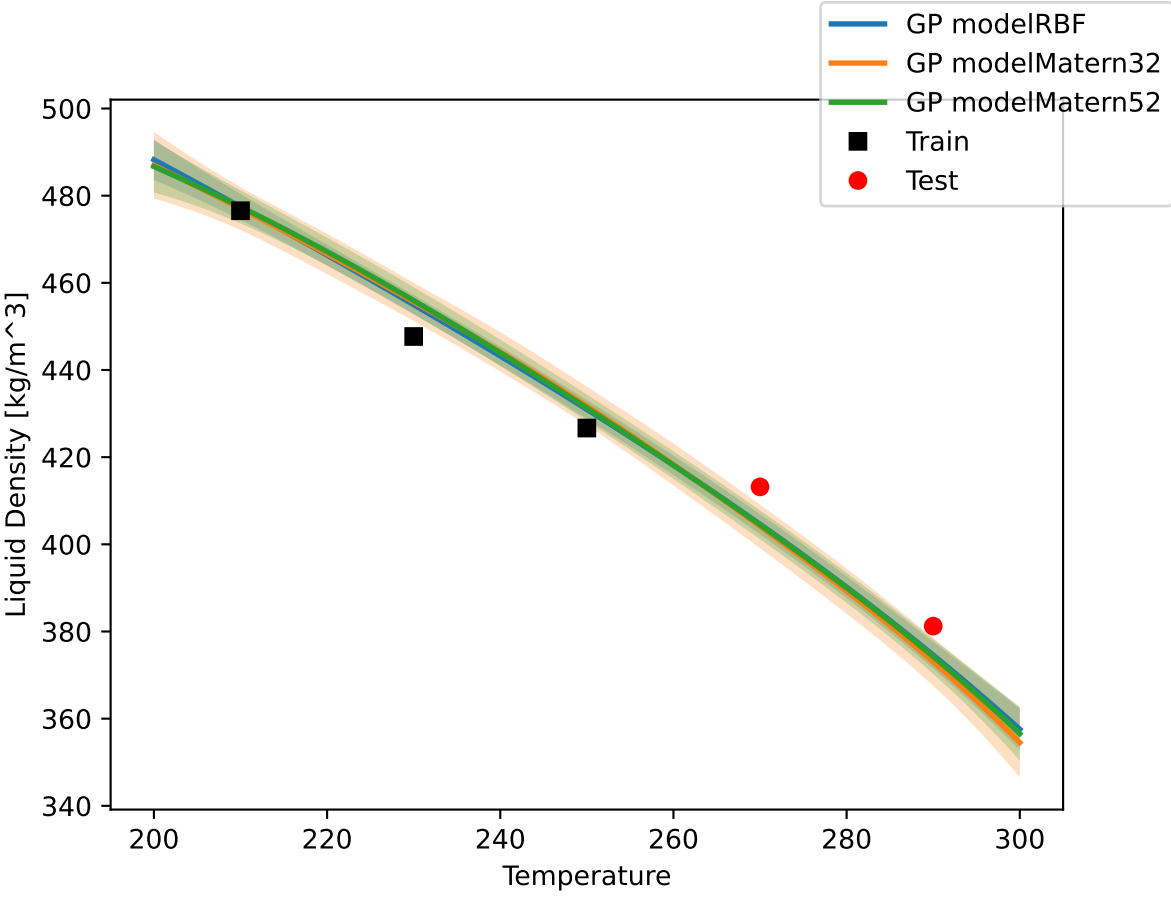
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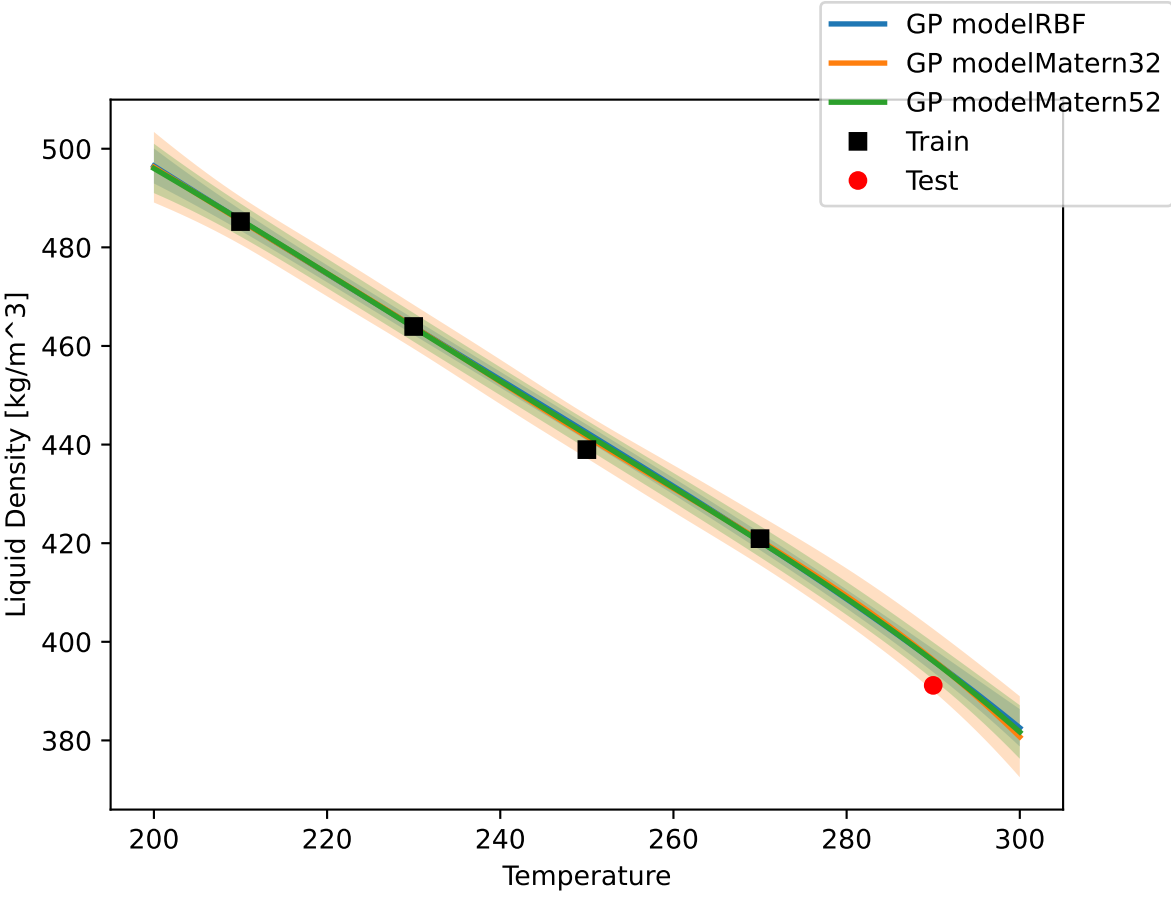
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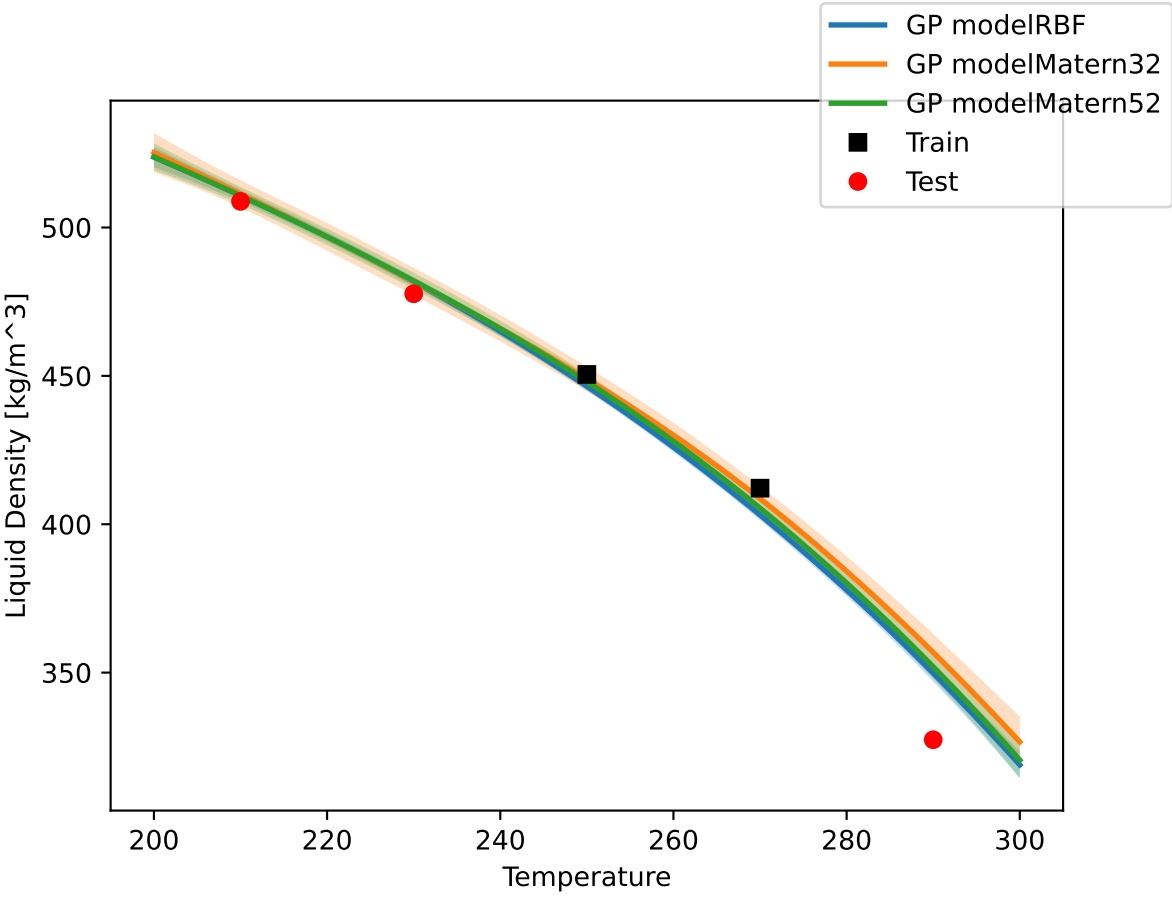
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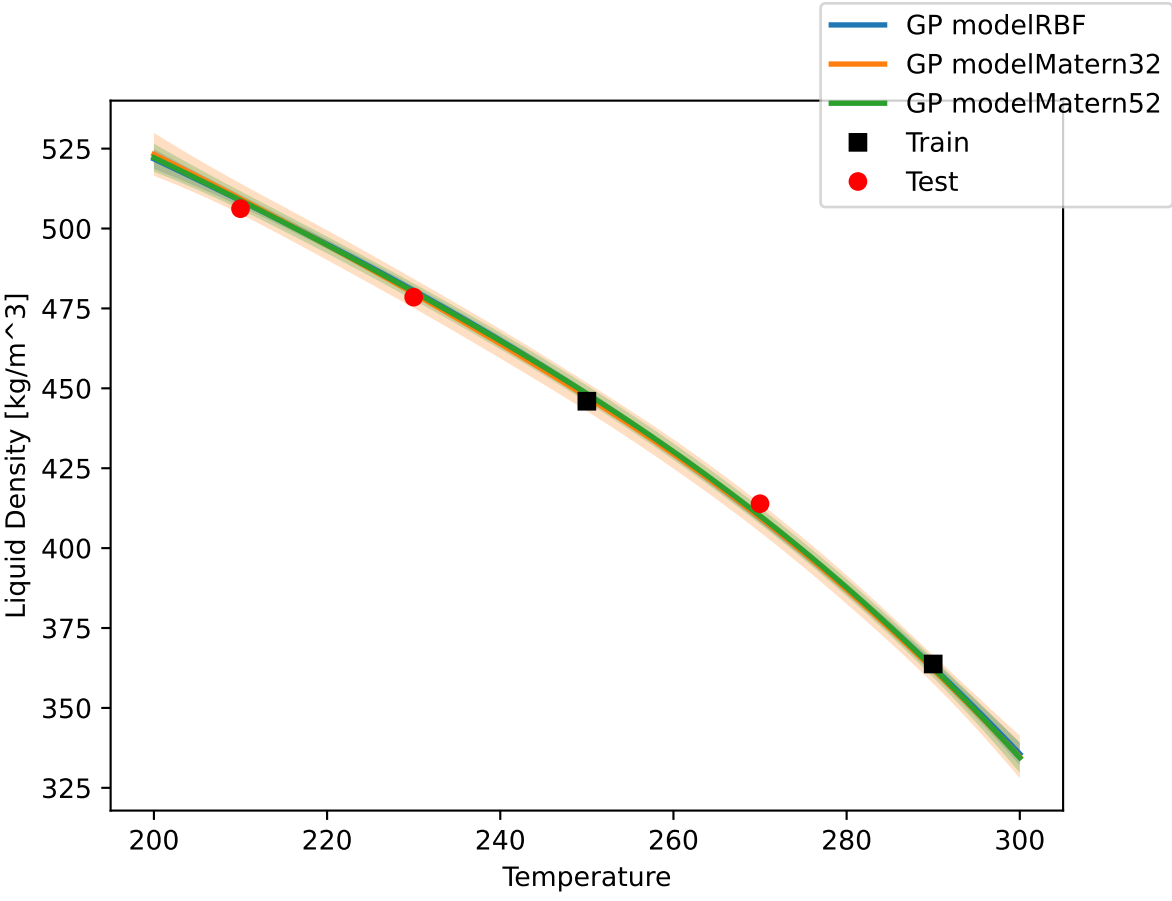
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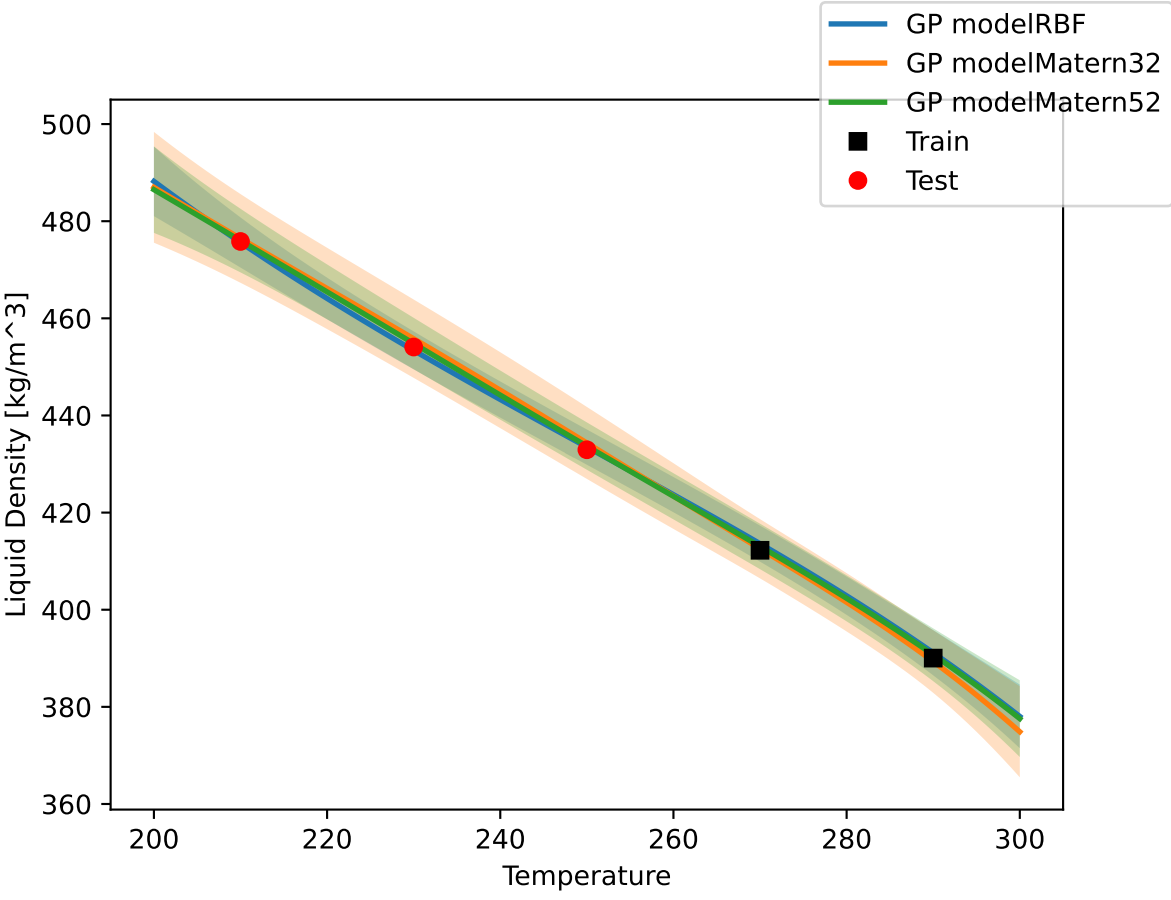
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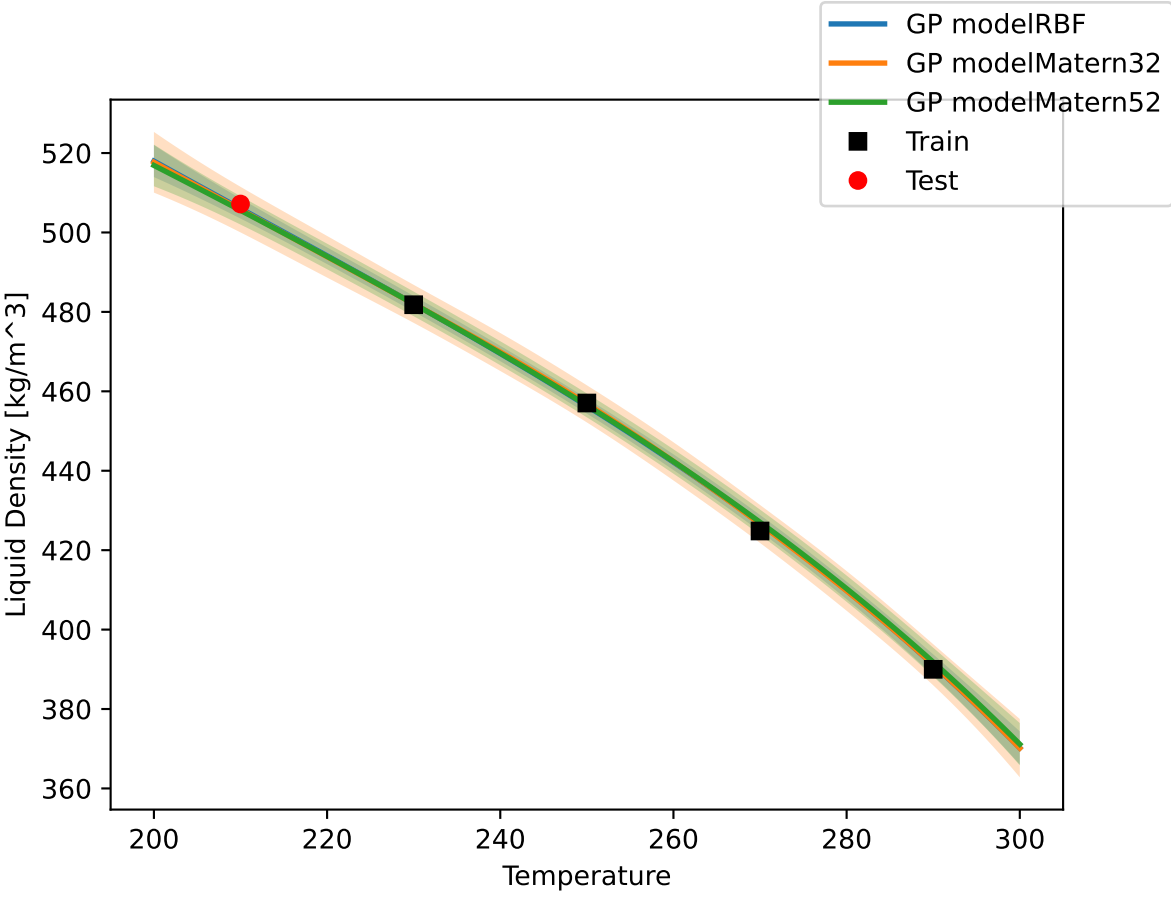
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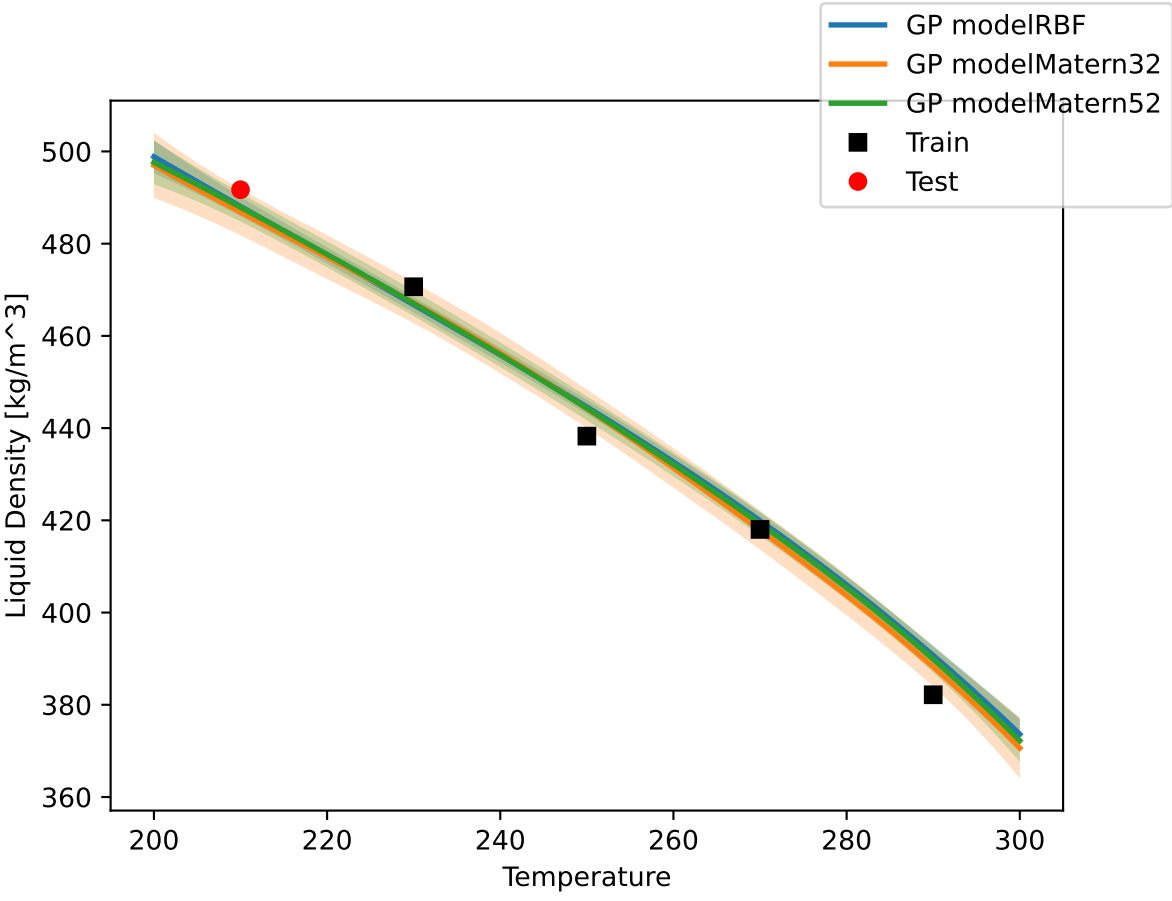
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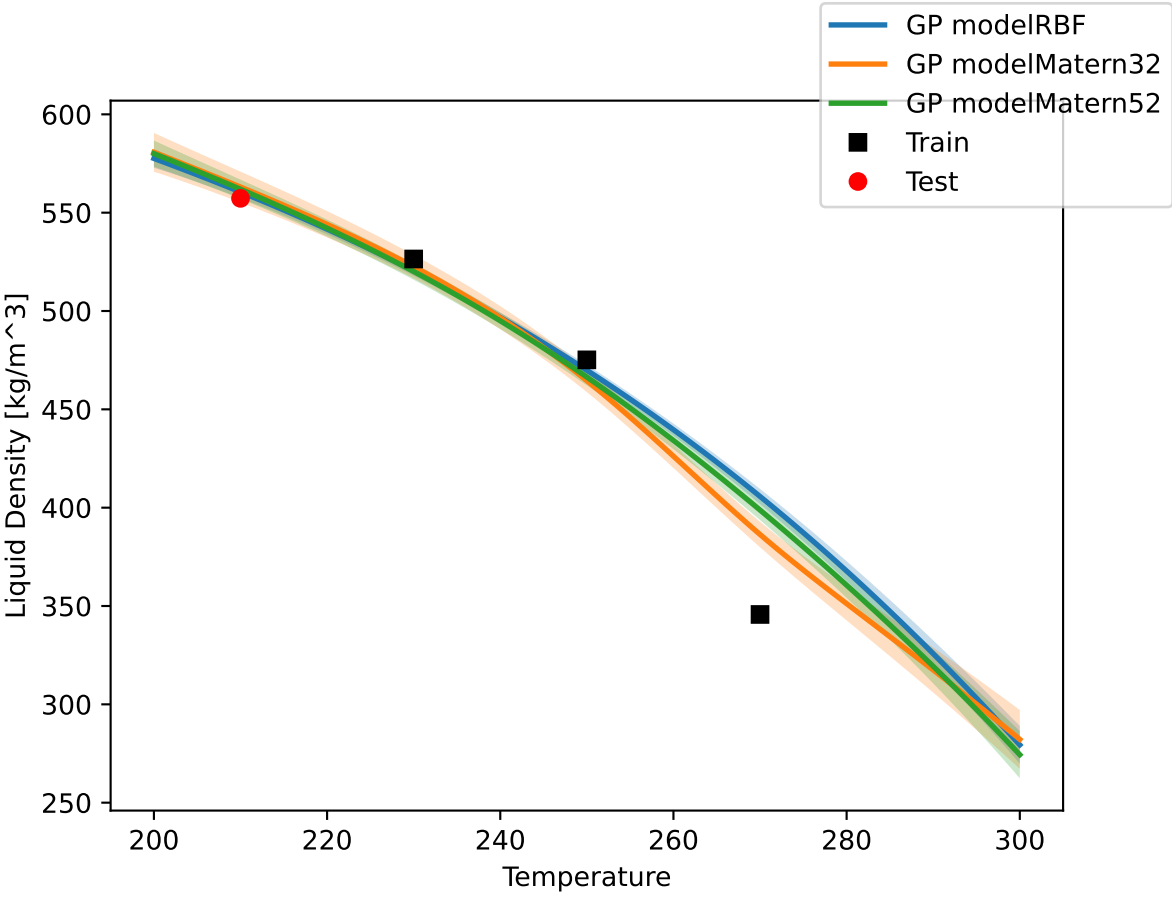
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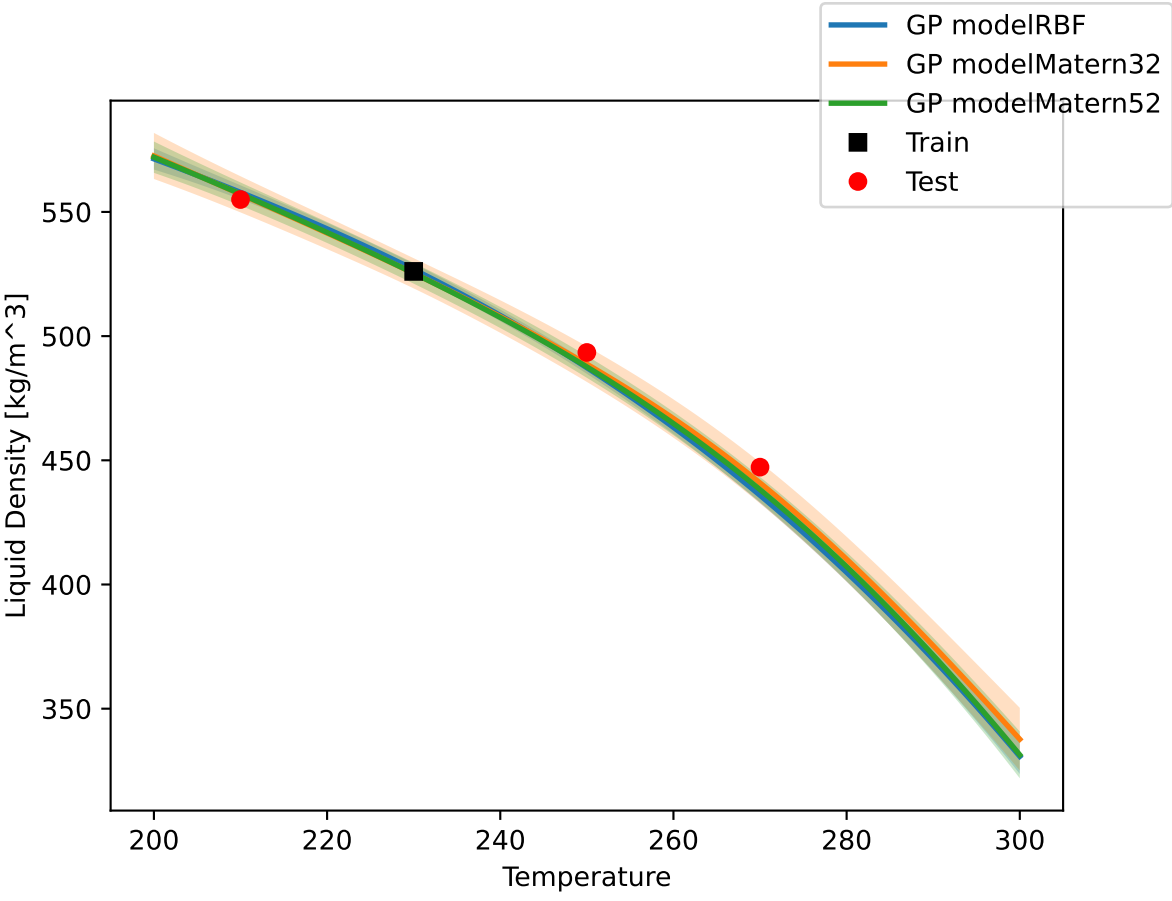
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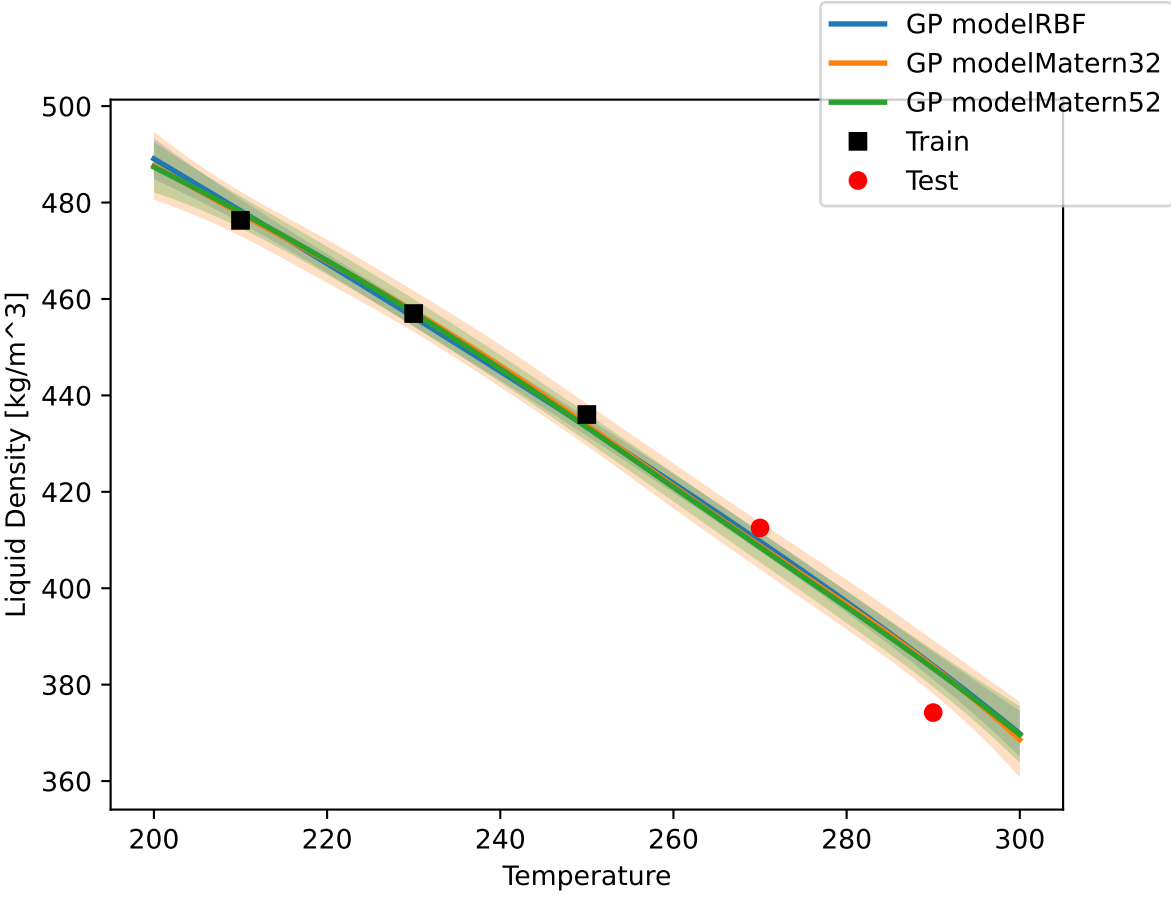
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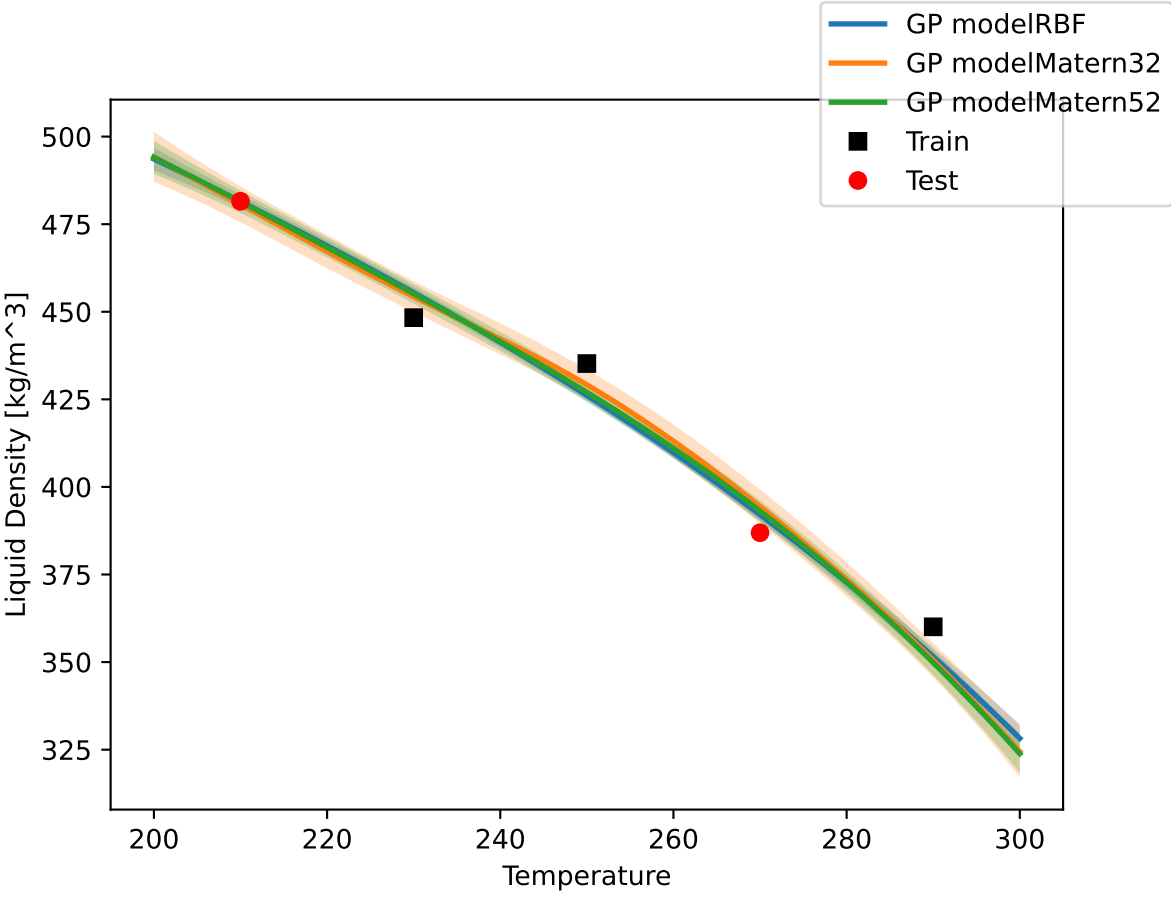
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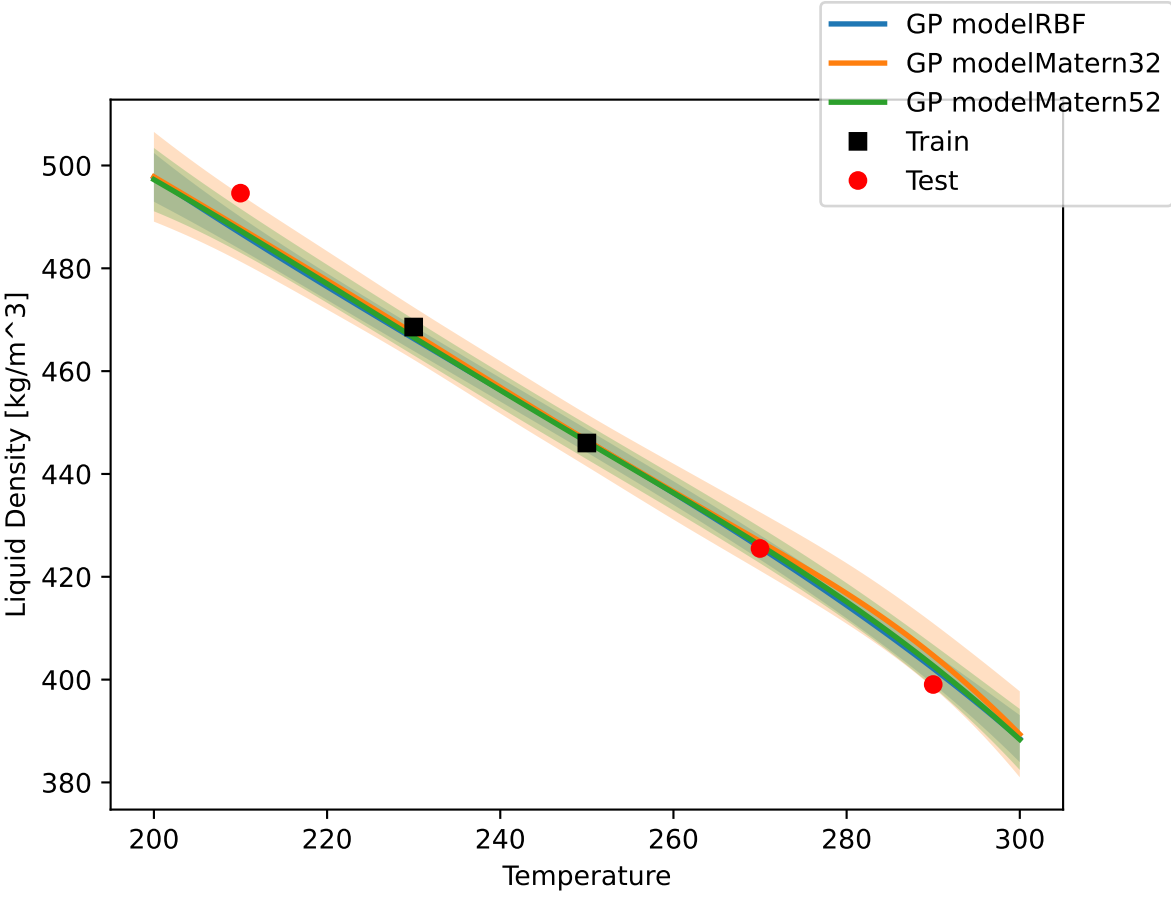
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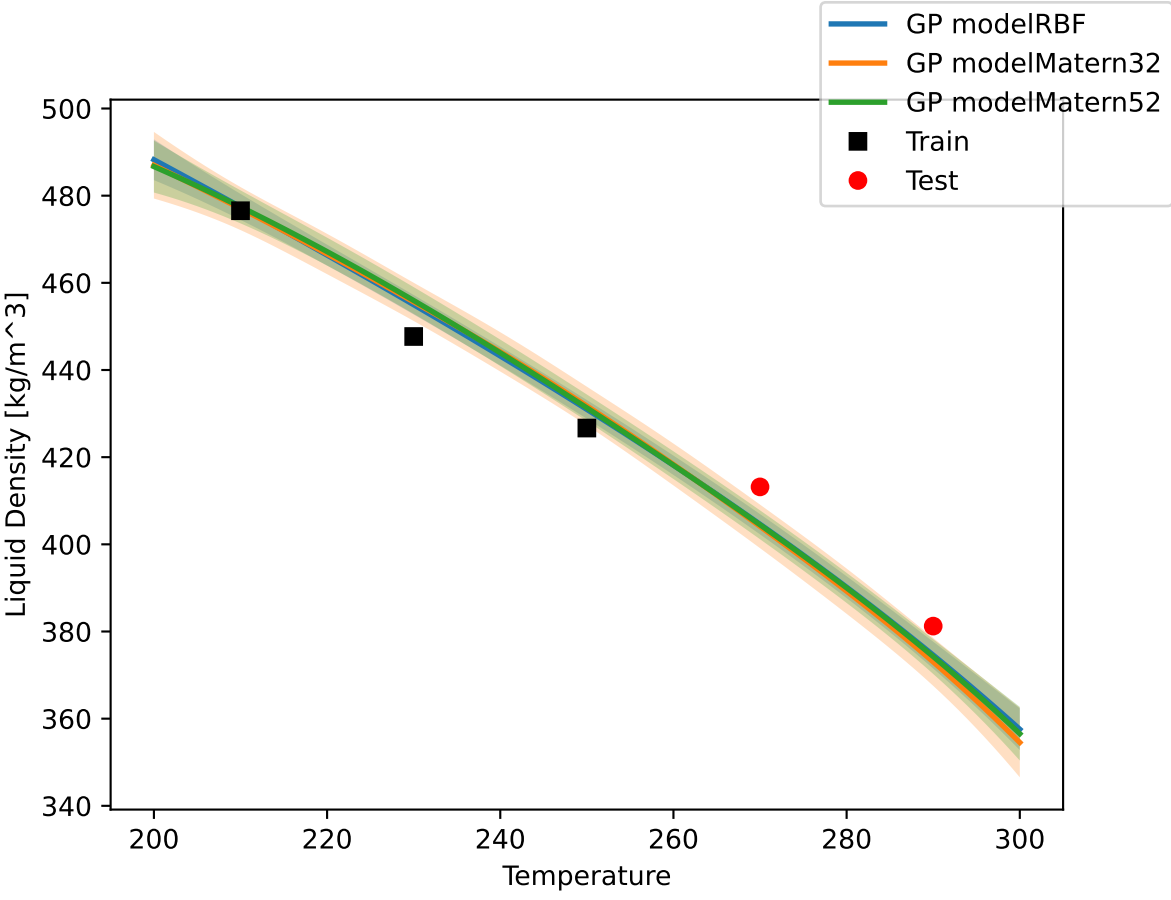
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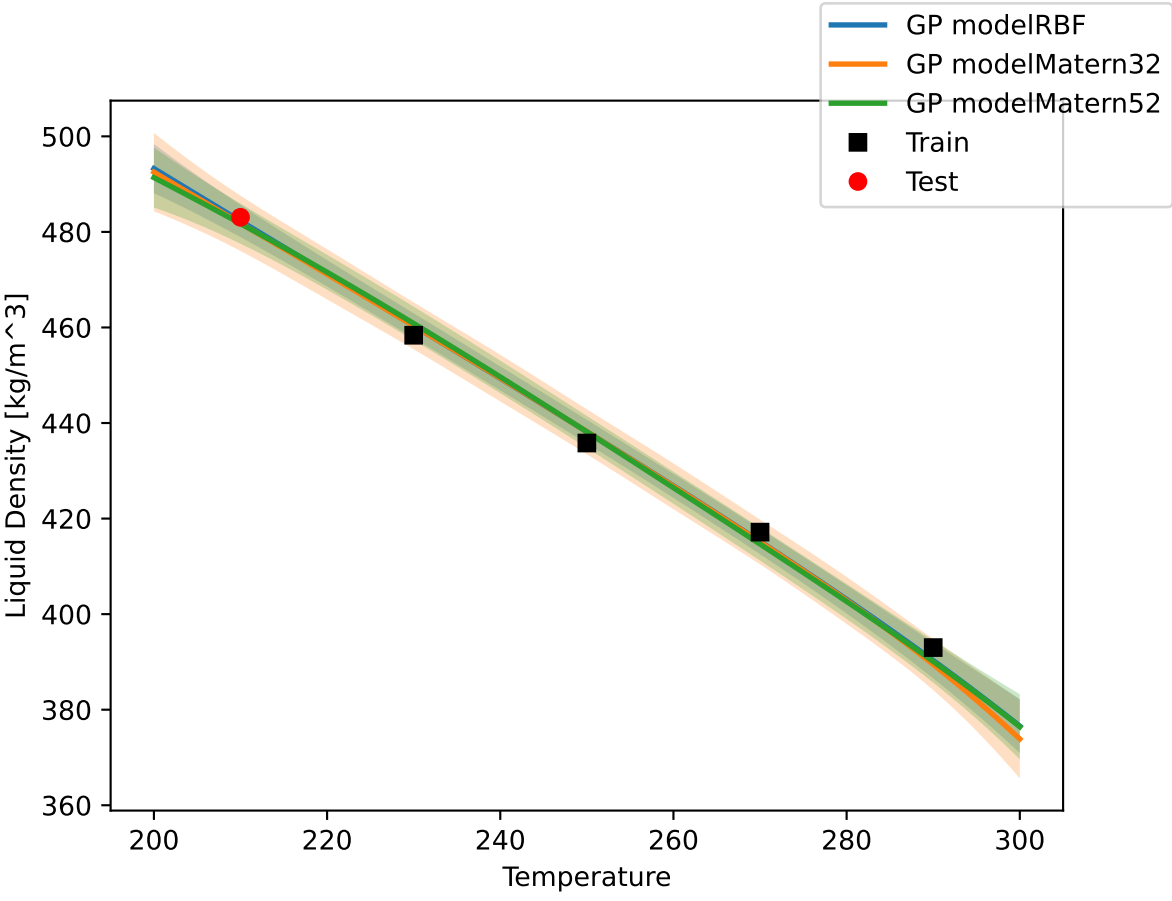
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GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
Temperature
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380
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280
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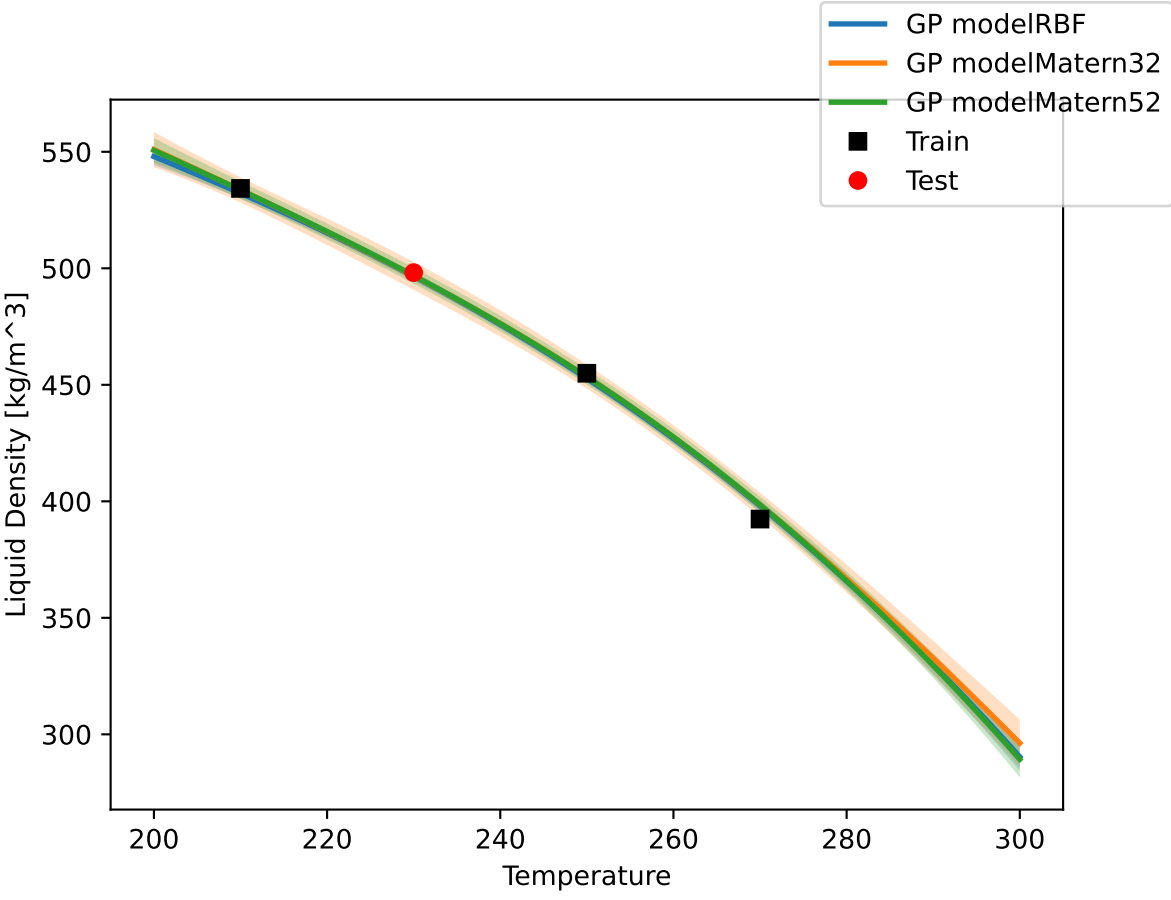
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GP modelMatern52
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Test
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300
Liquid Density [kg/m^3]
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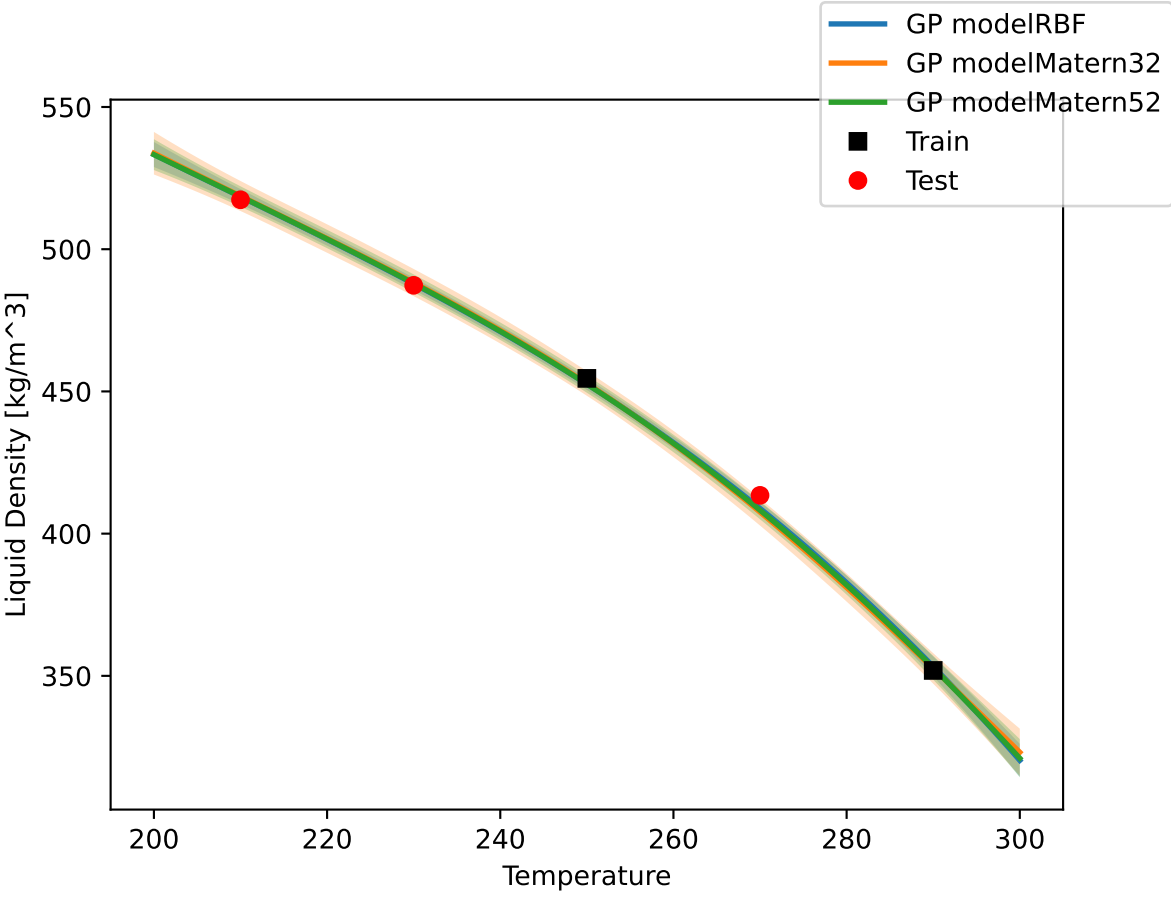
300
Temperature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Liquid Density [kg/m^3]
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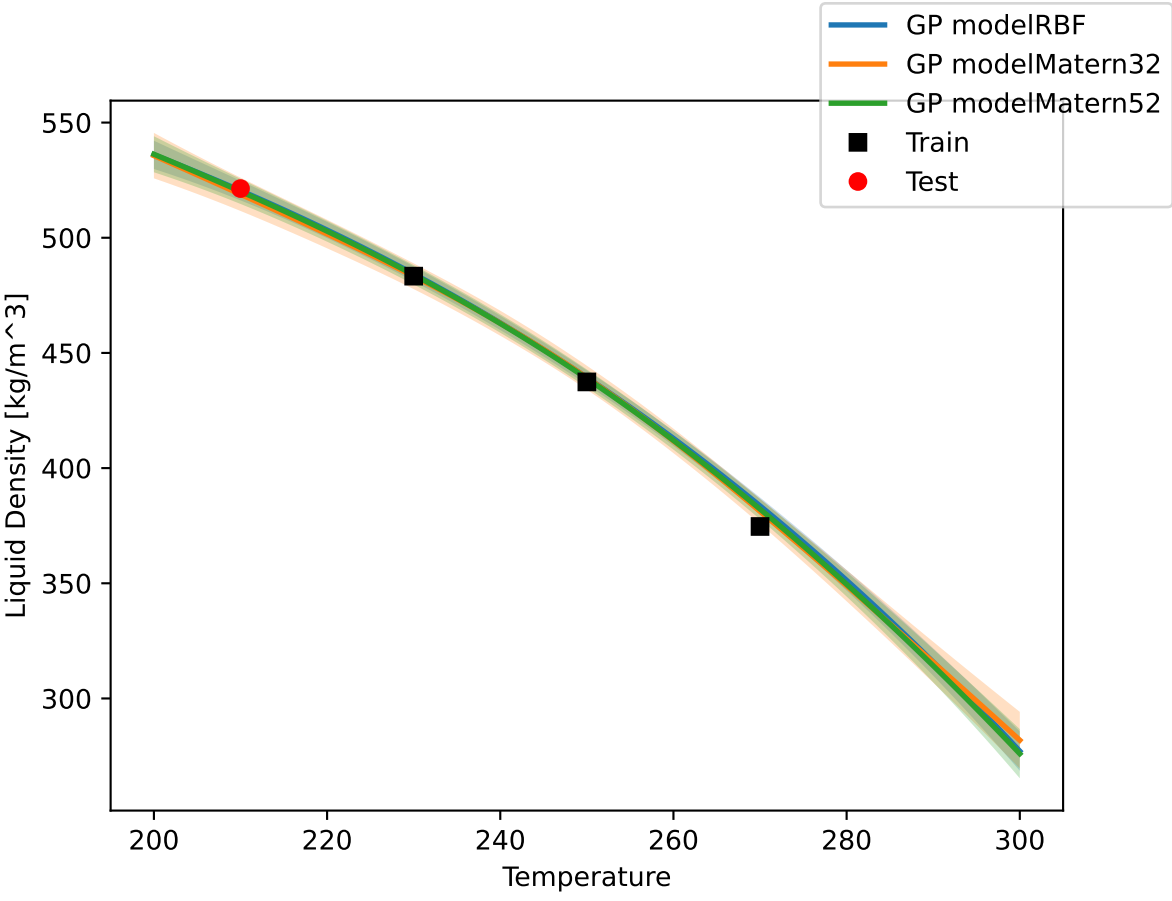
300
Temperature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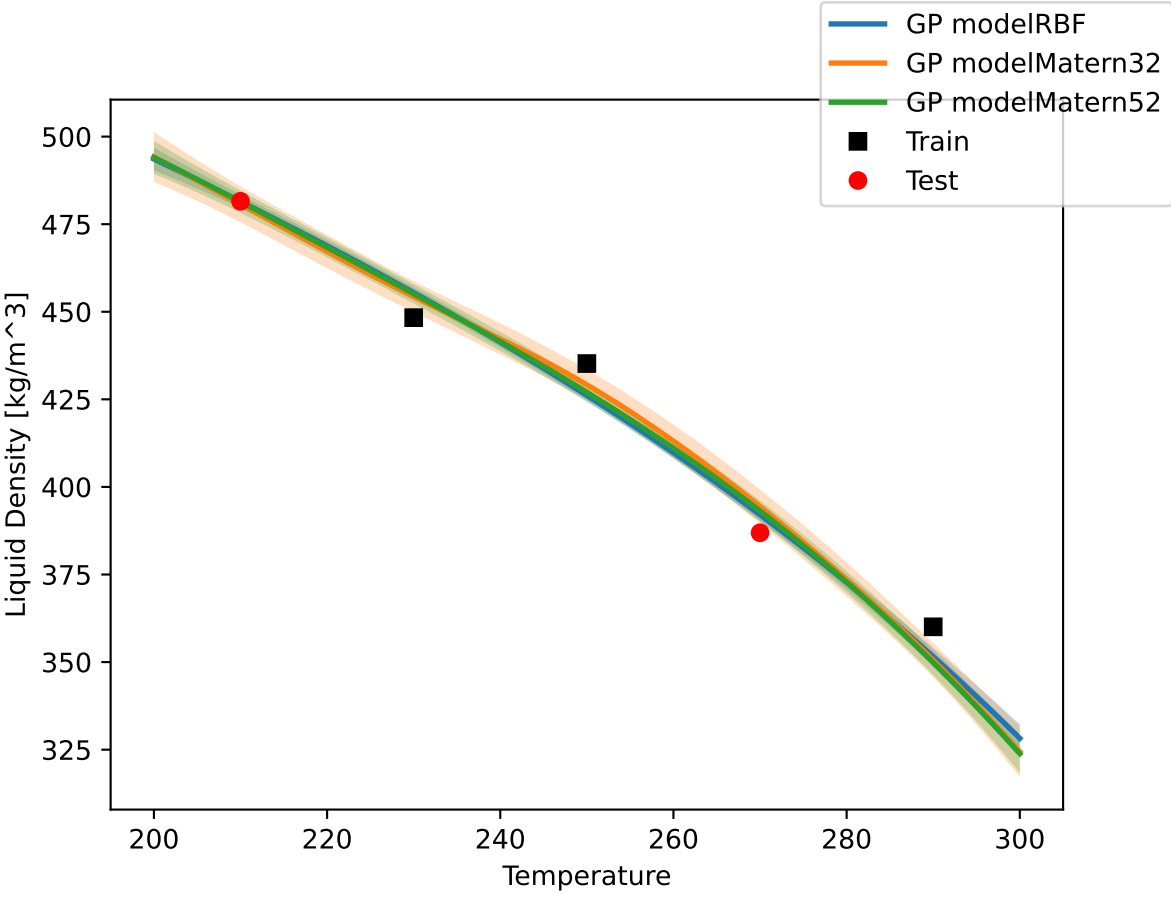
Temperature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Train
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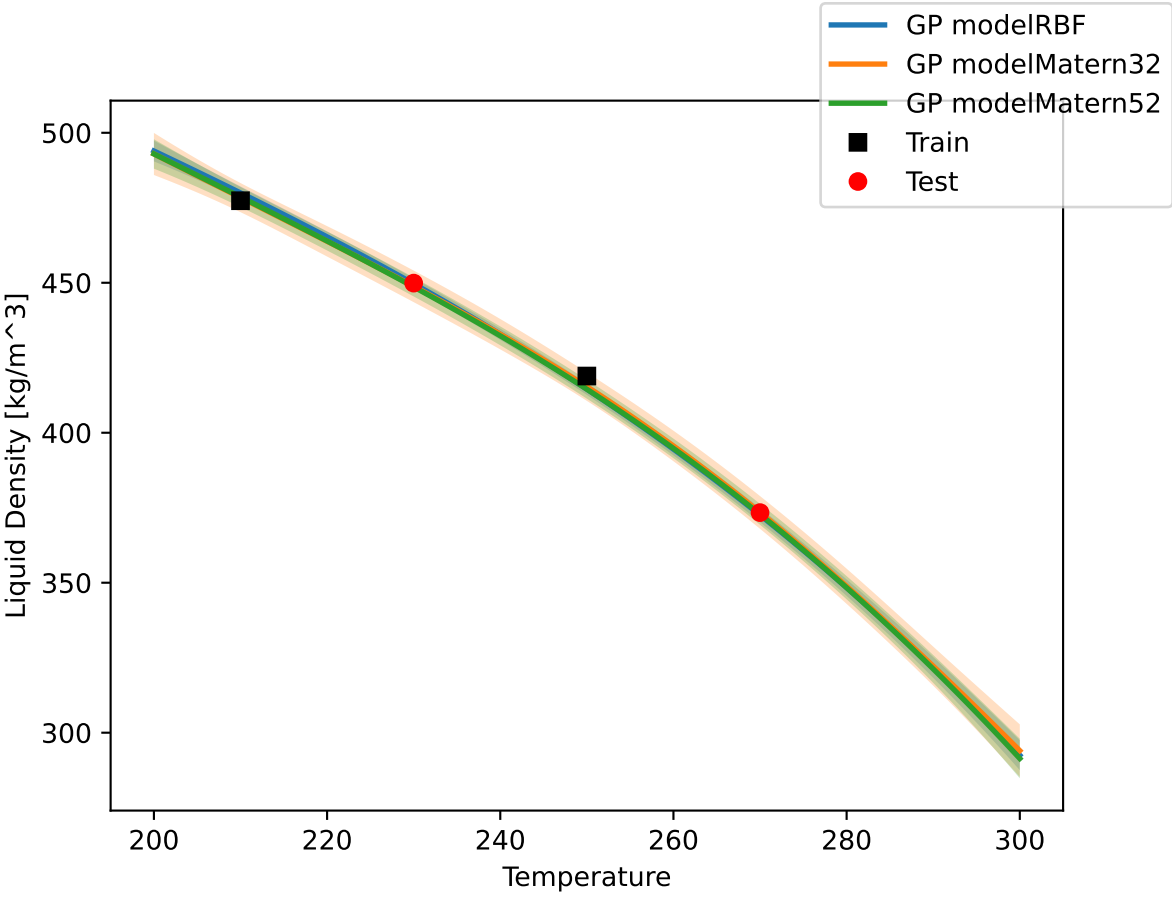
Temperature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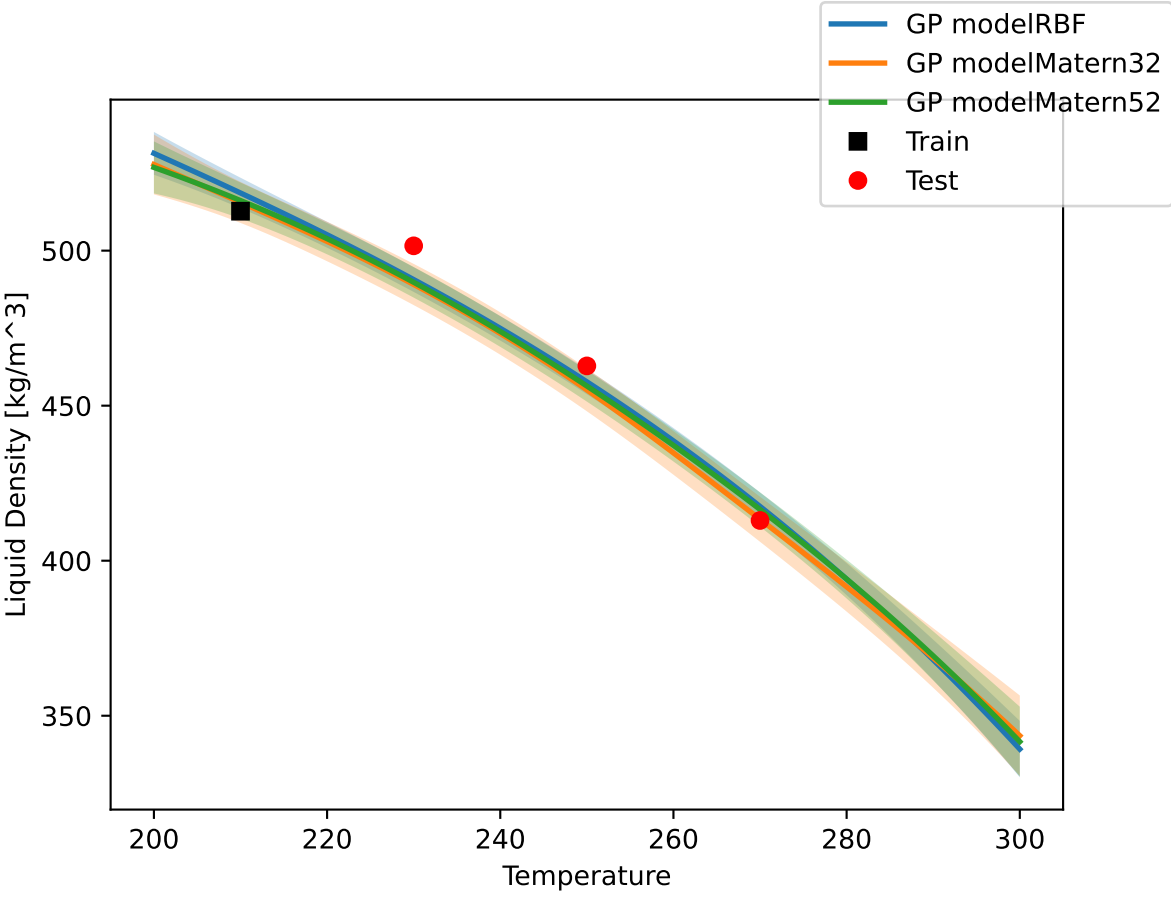
Temperature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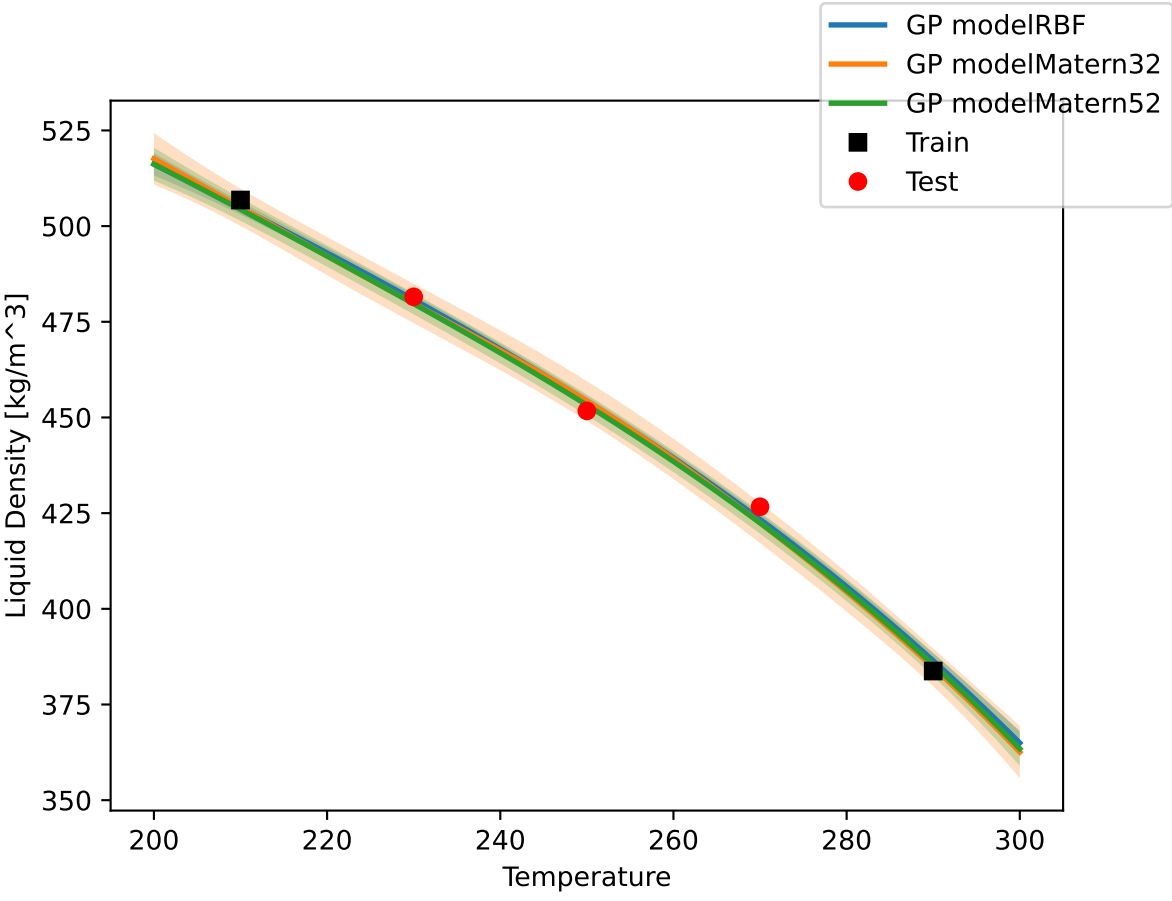
Temperature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Liquid Density [kg/m^3]
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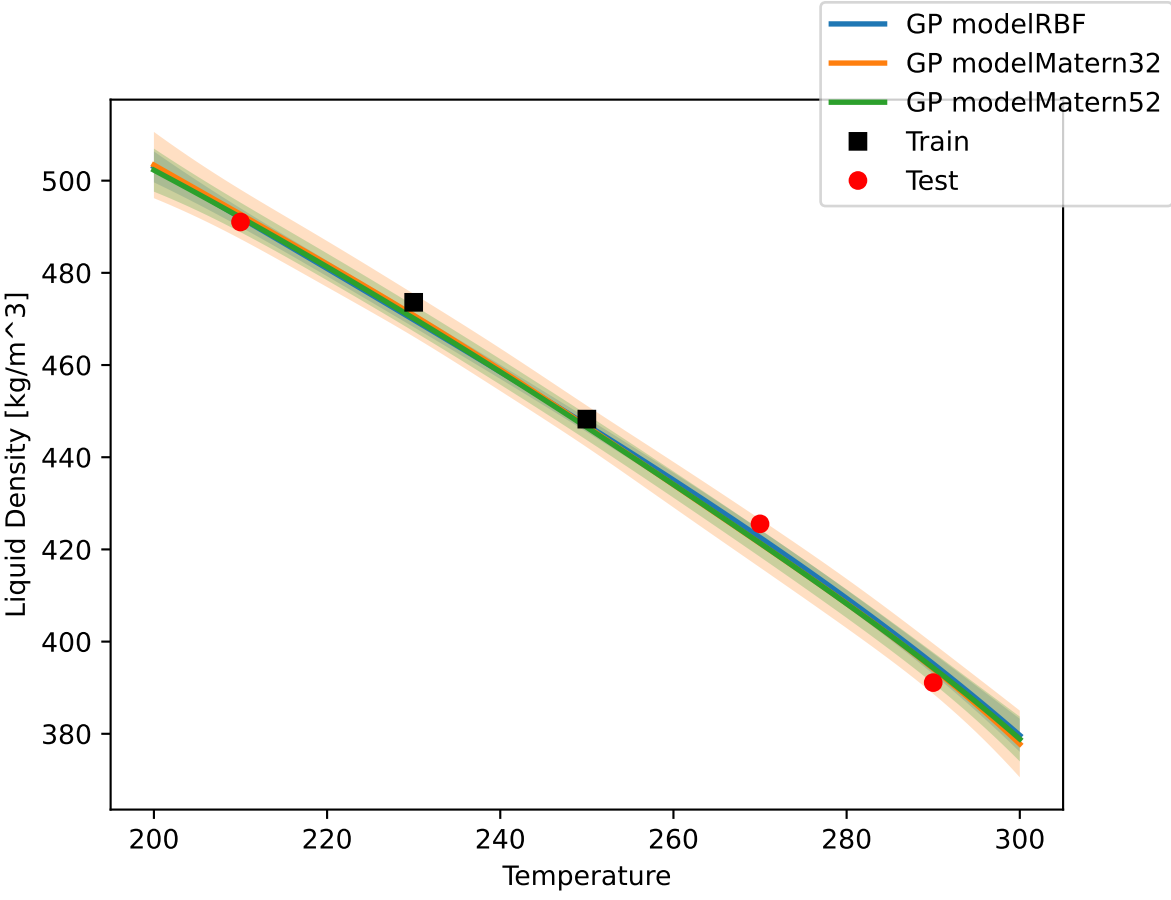
Temperature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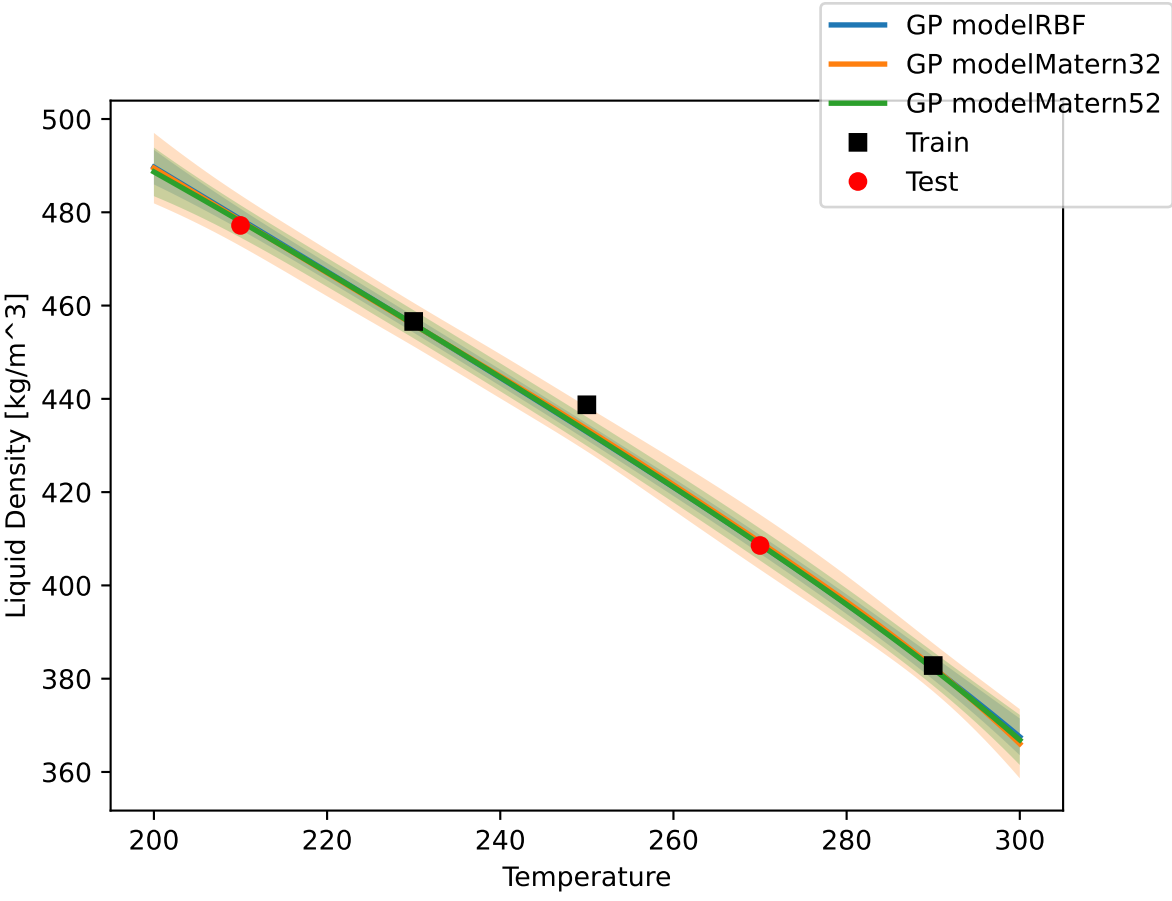
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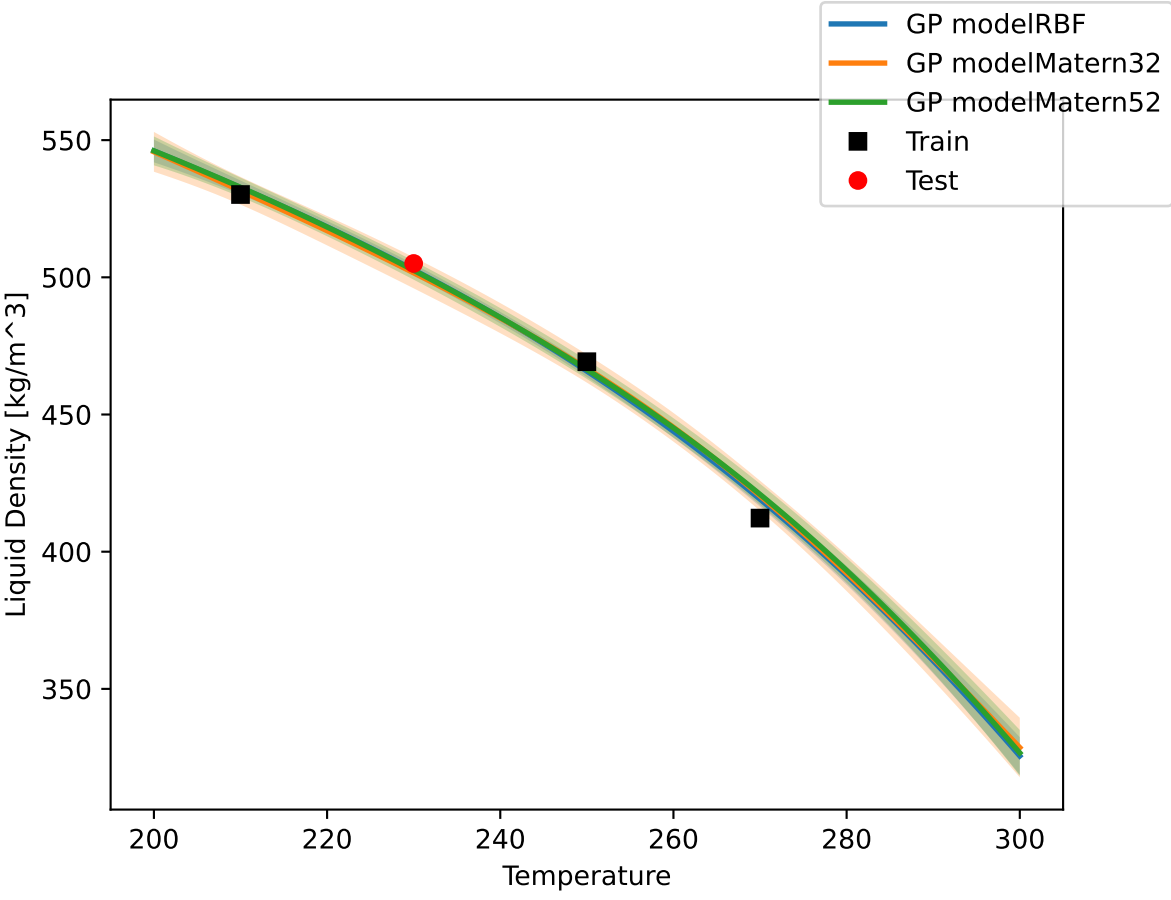
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Liquid Density [kg/m^3]
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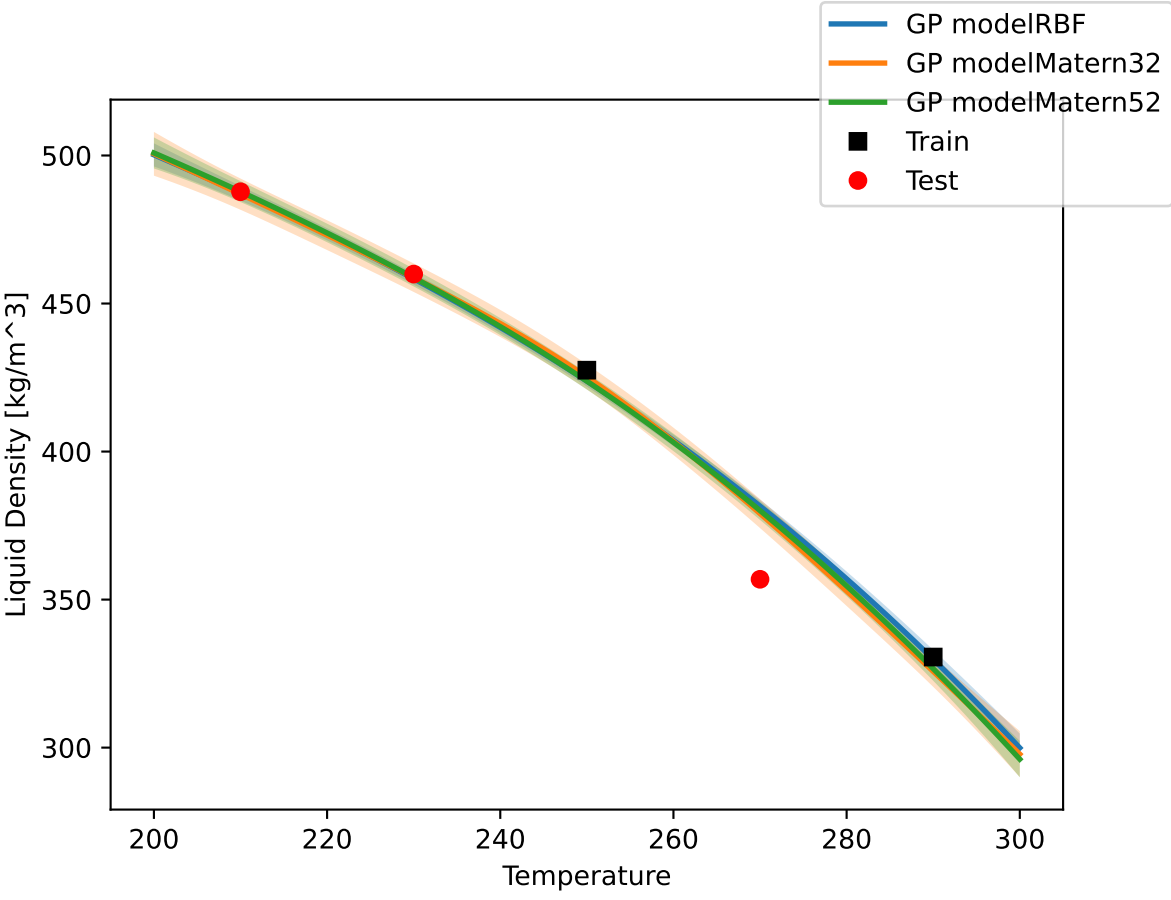
Temperature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Liquid Density [kg/m^3]
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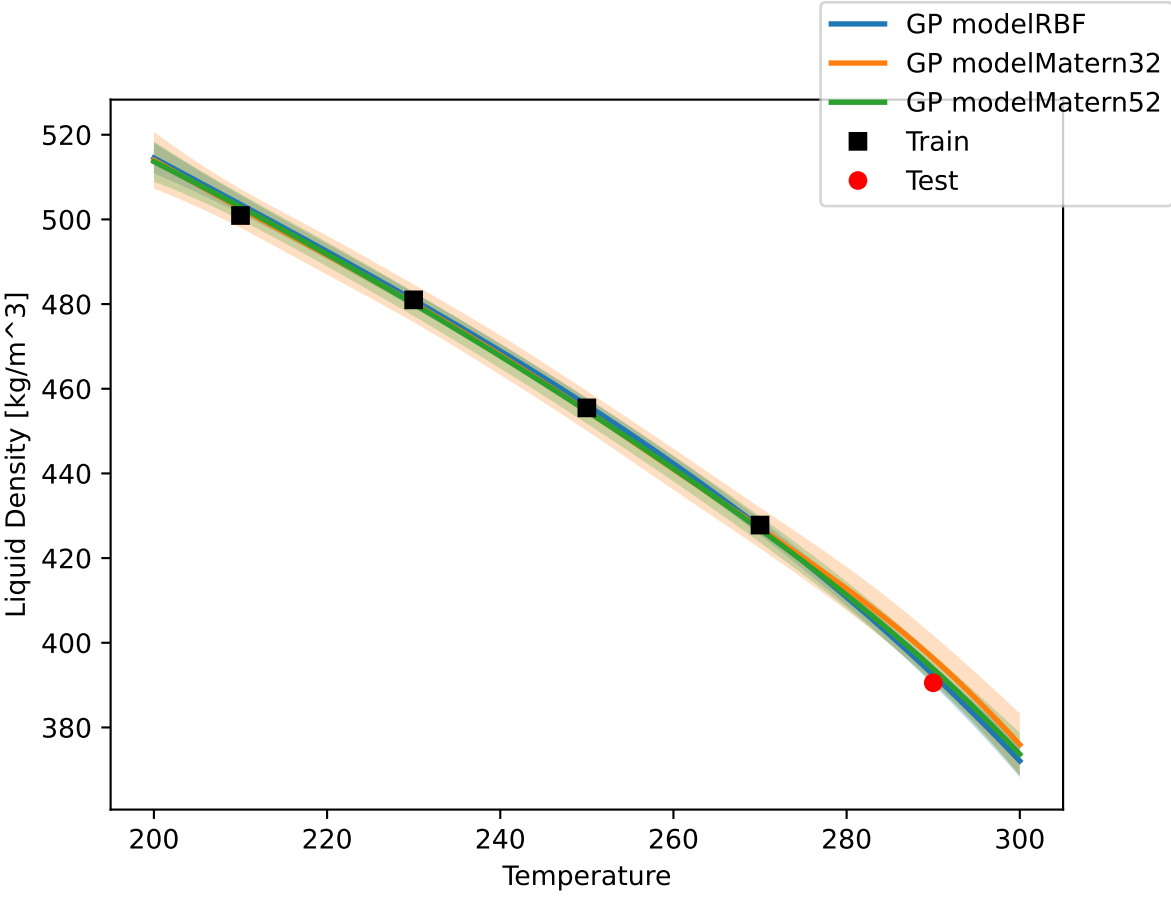
Temperature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Train
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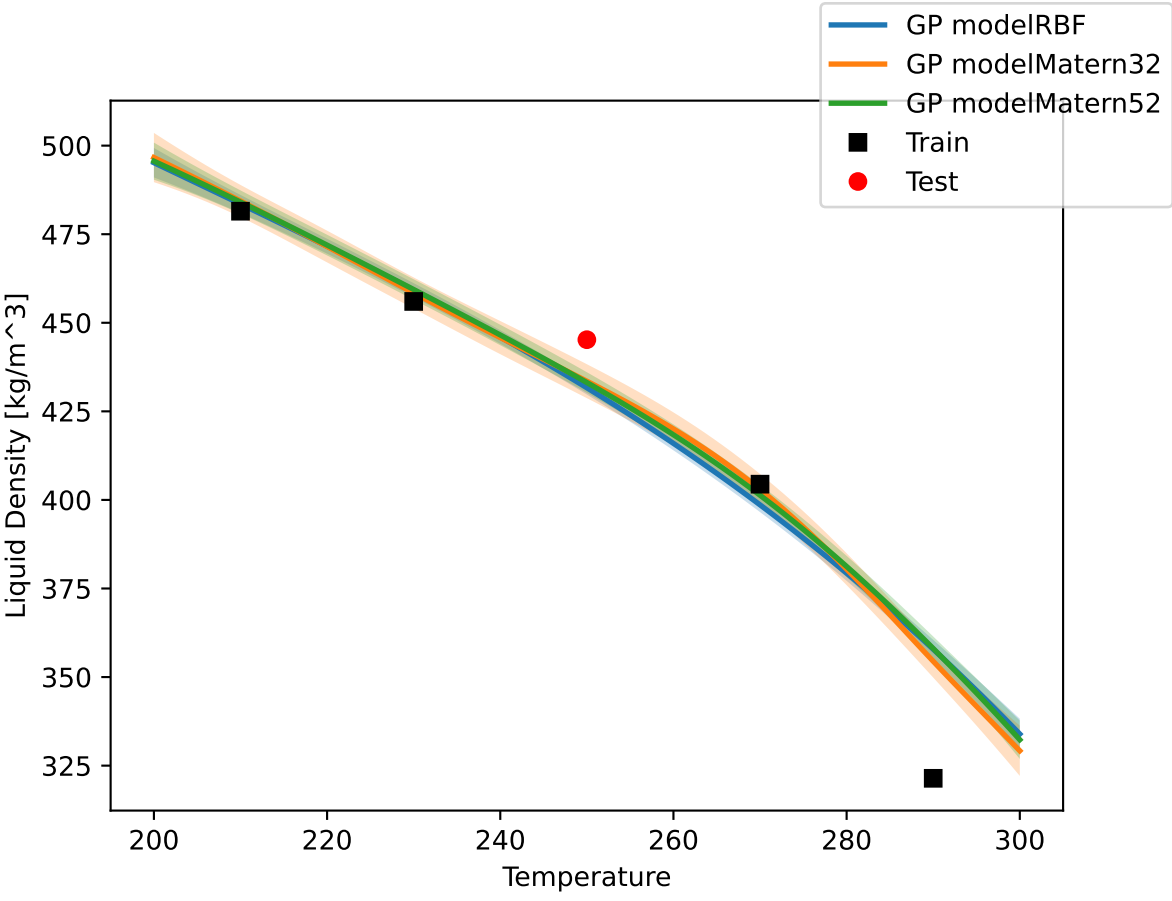
Temperature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GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
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425
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375
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325
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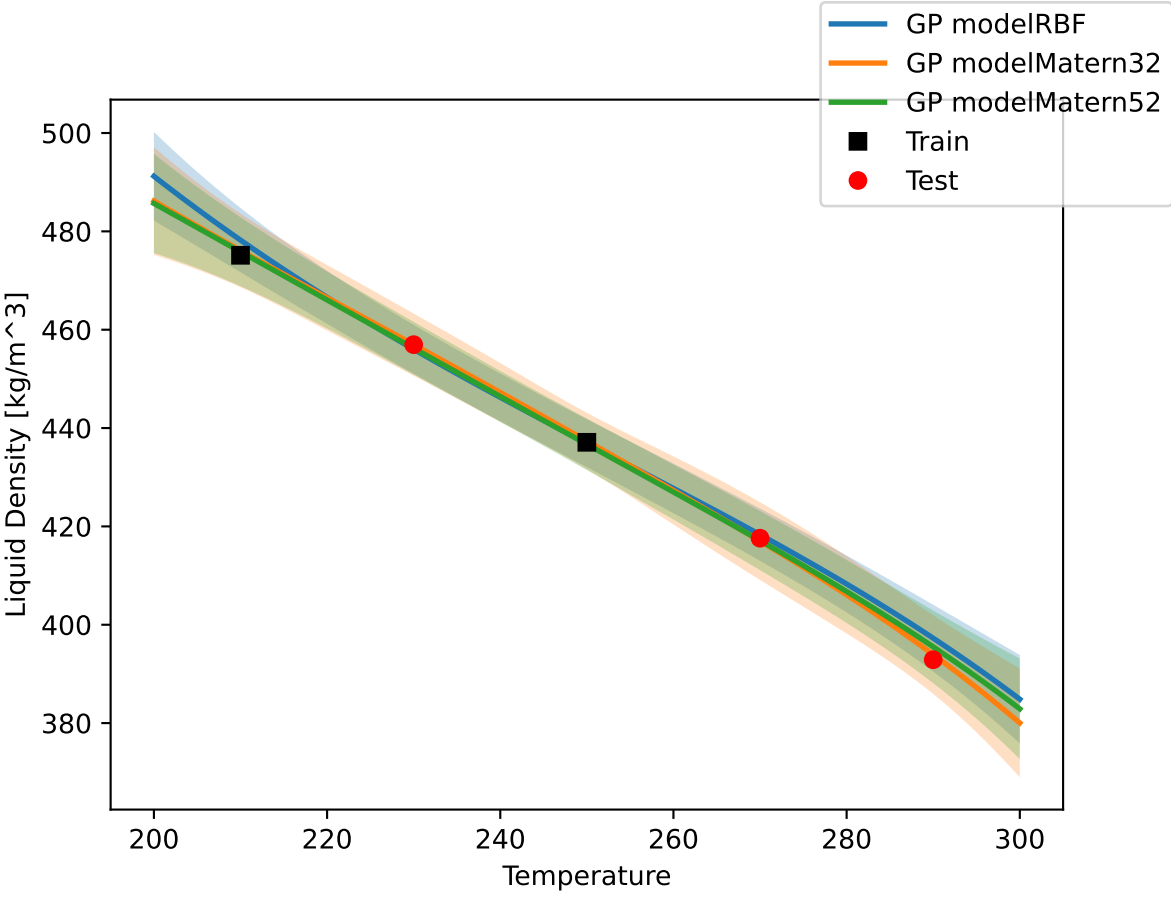
300
Temperature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Train
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Liquid Density [kg/m^3]
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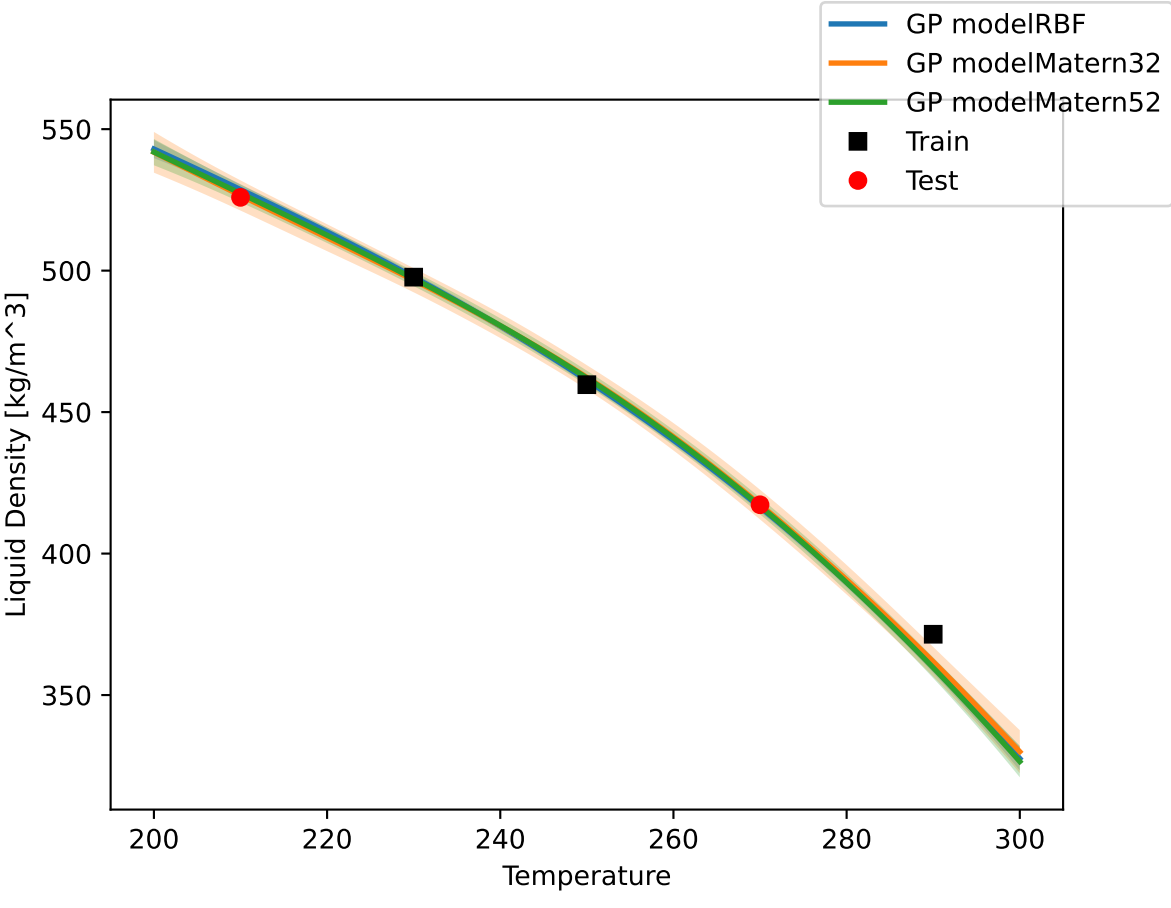
Temperature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Train
Test
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Liquid Density [kg/m^3]
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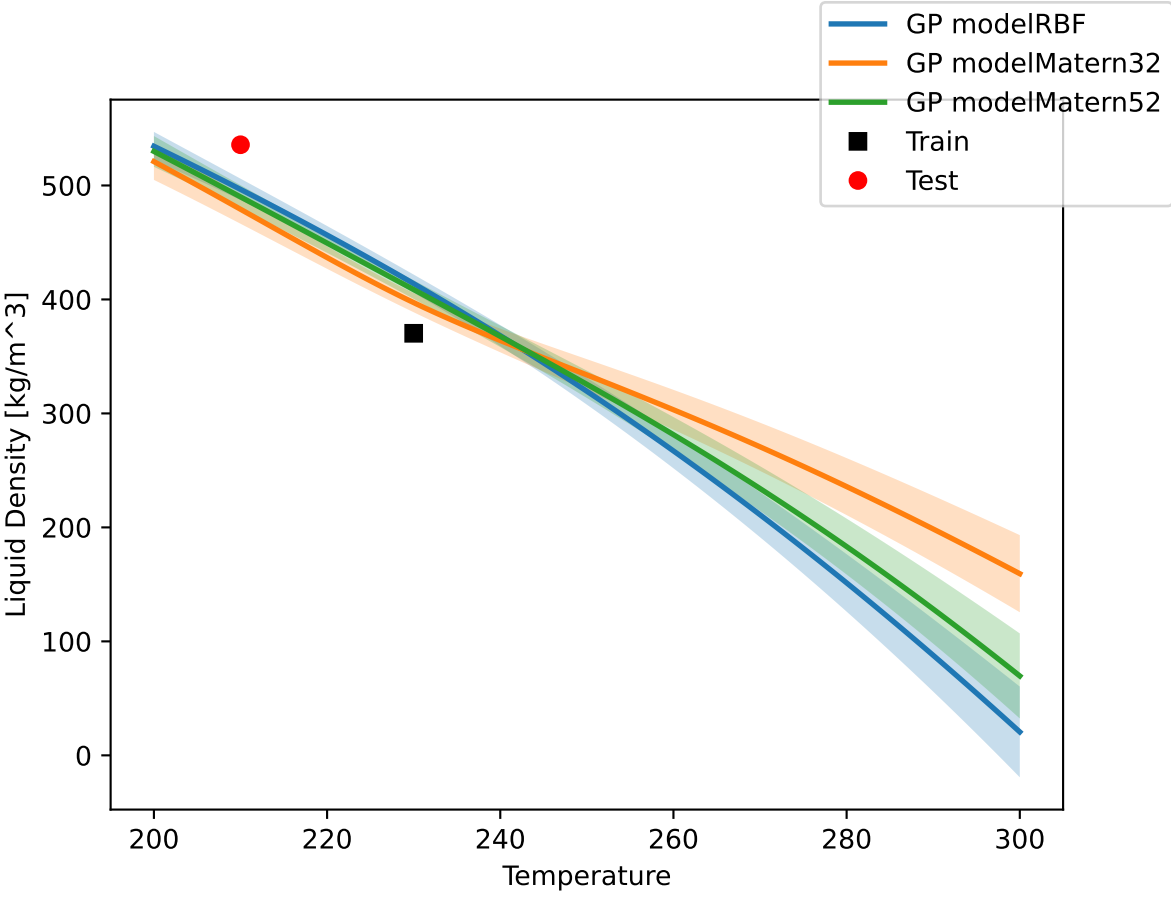
Temperature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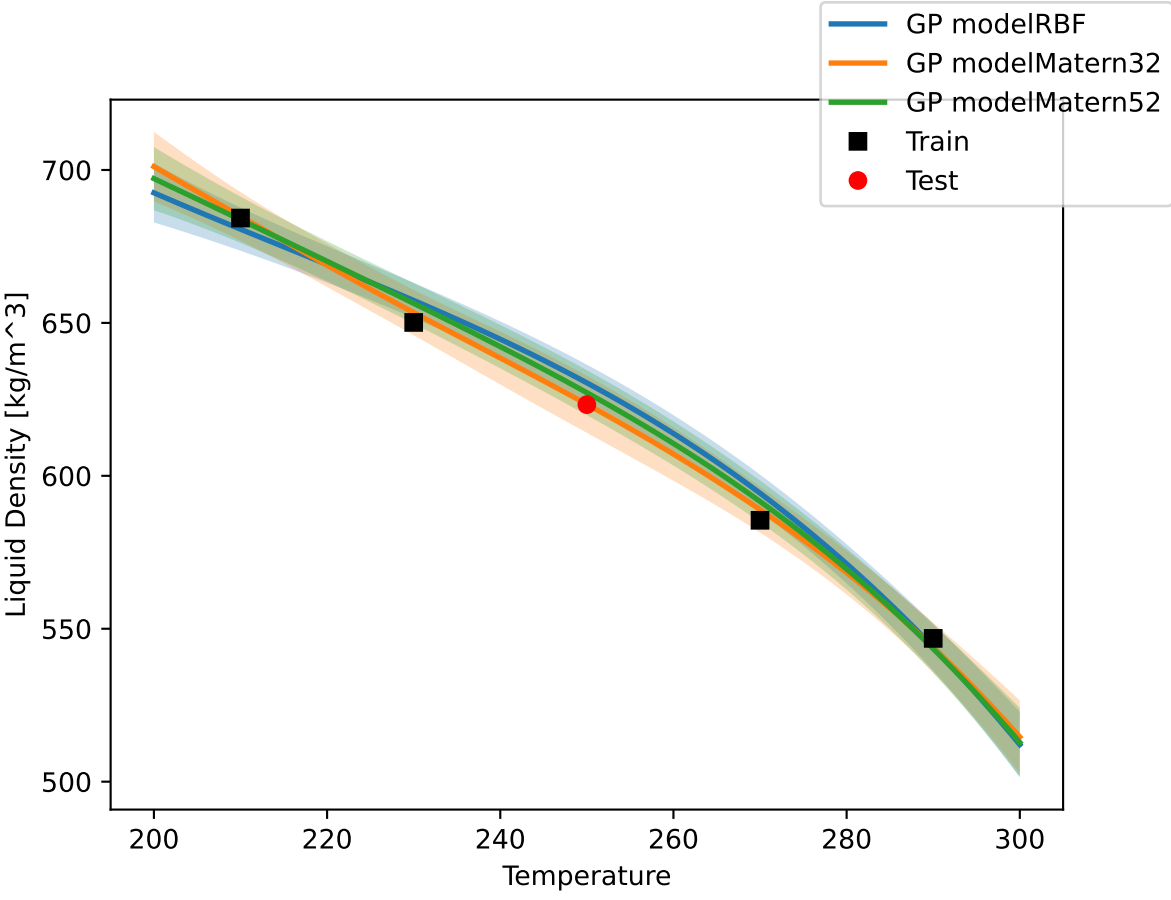
300
Temperature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Test
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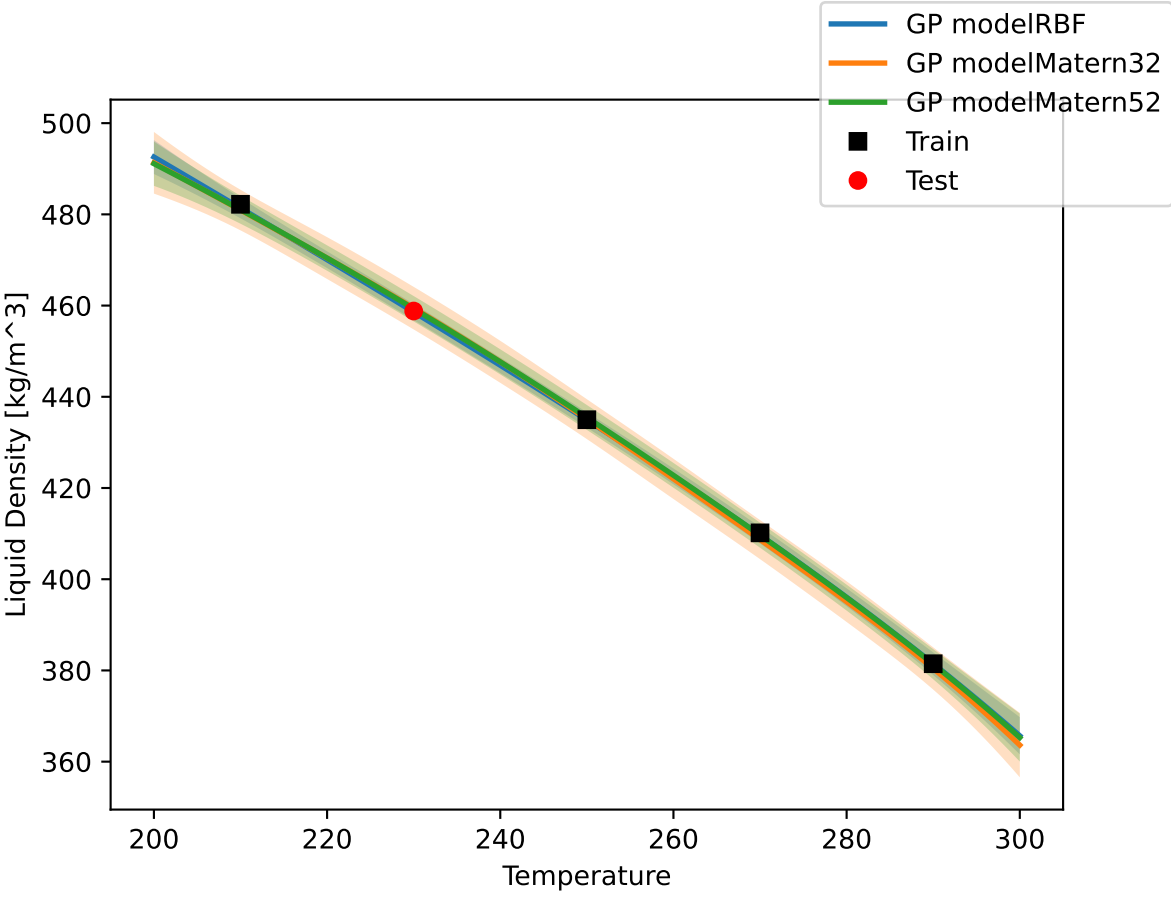
Temperature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Train
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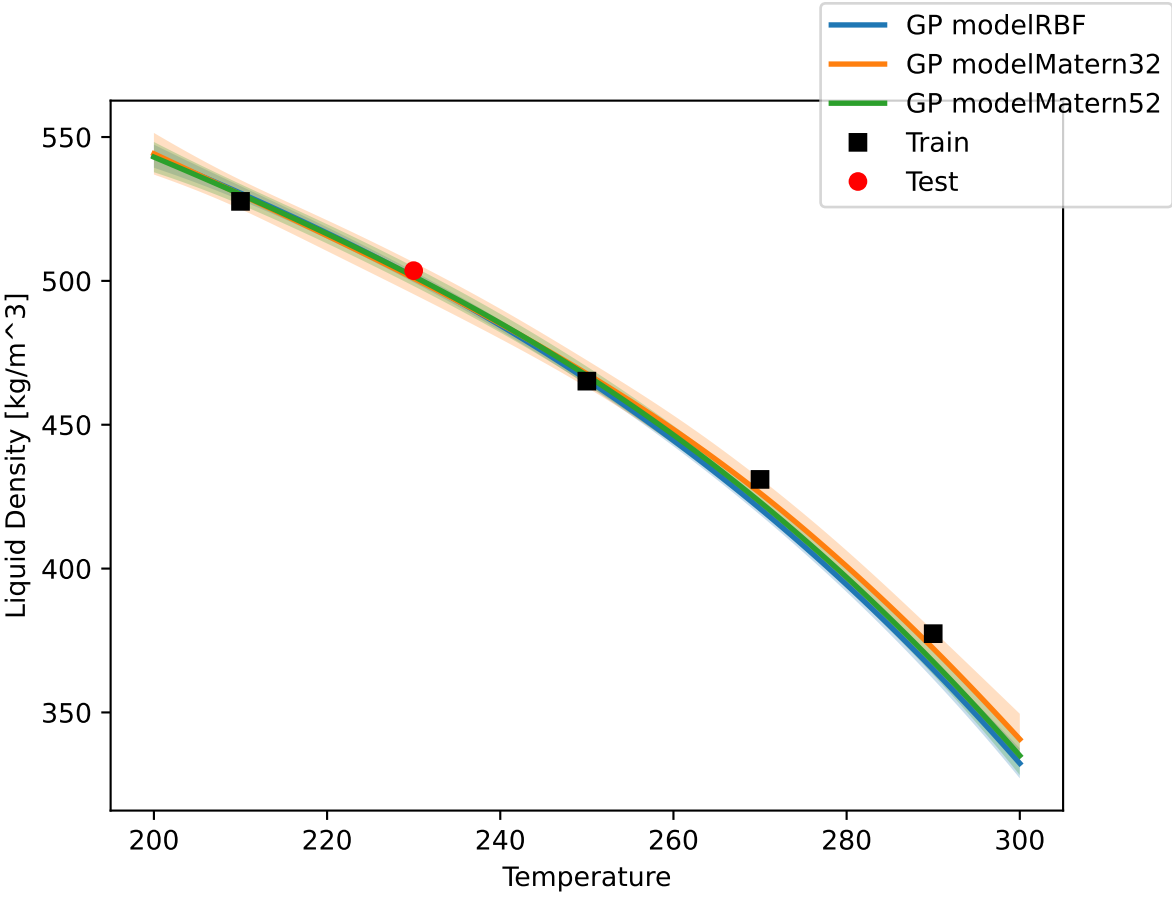
Temperature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Liquid Density [kg/m^3]
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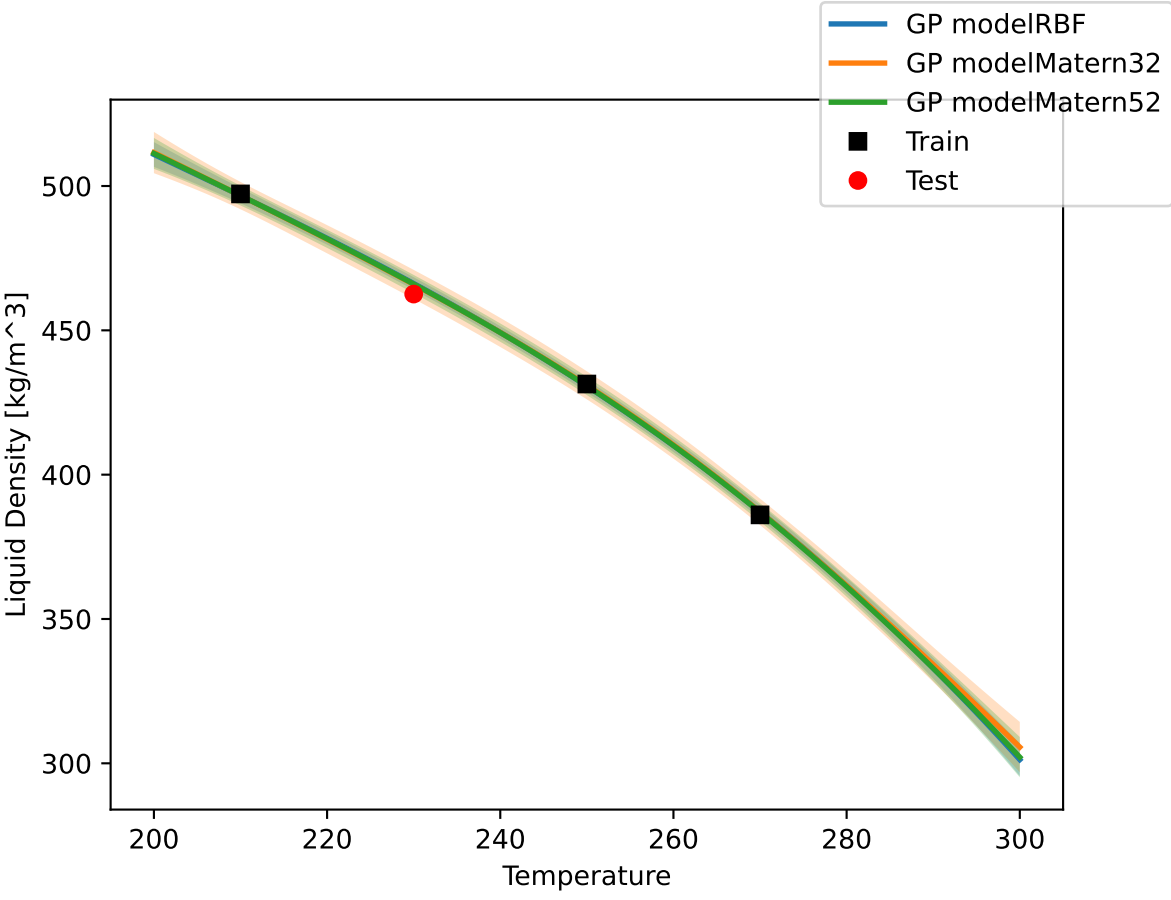
Temperature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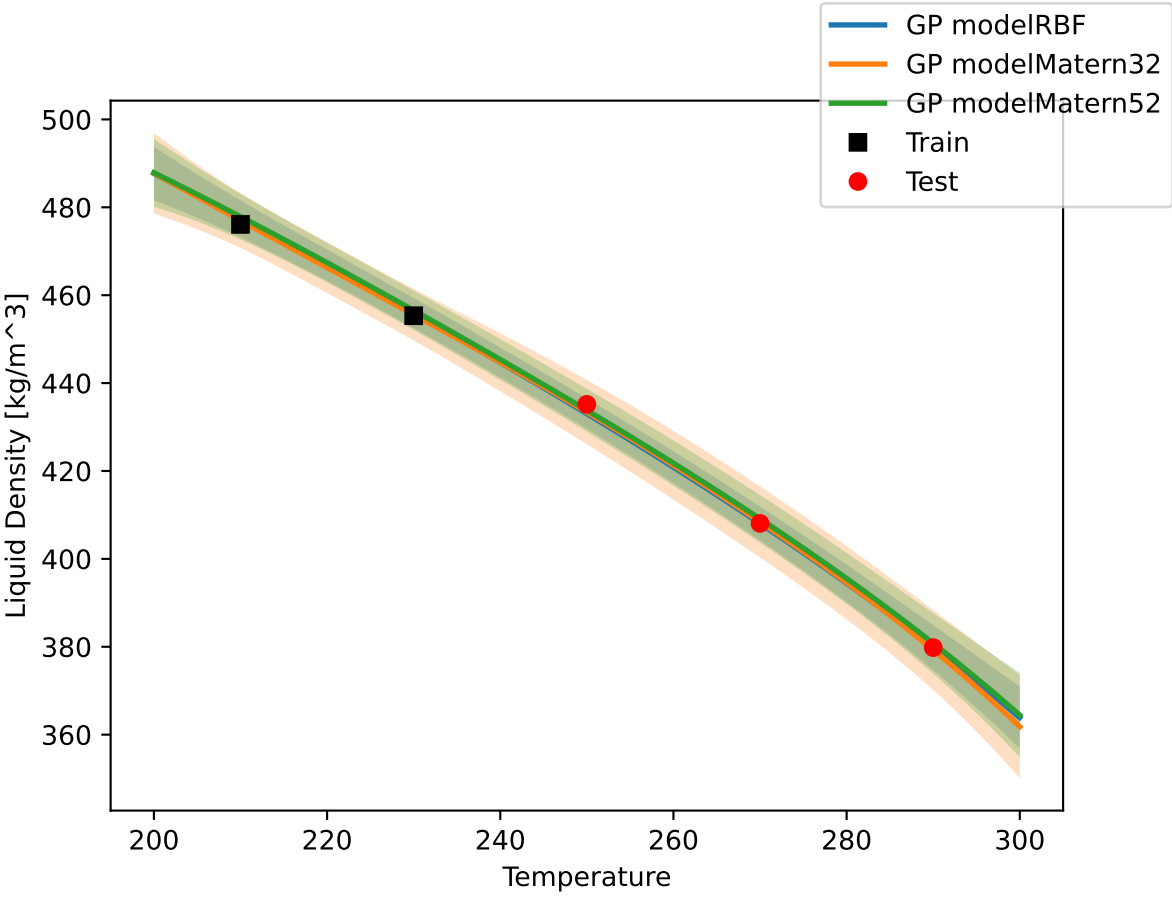
Temperature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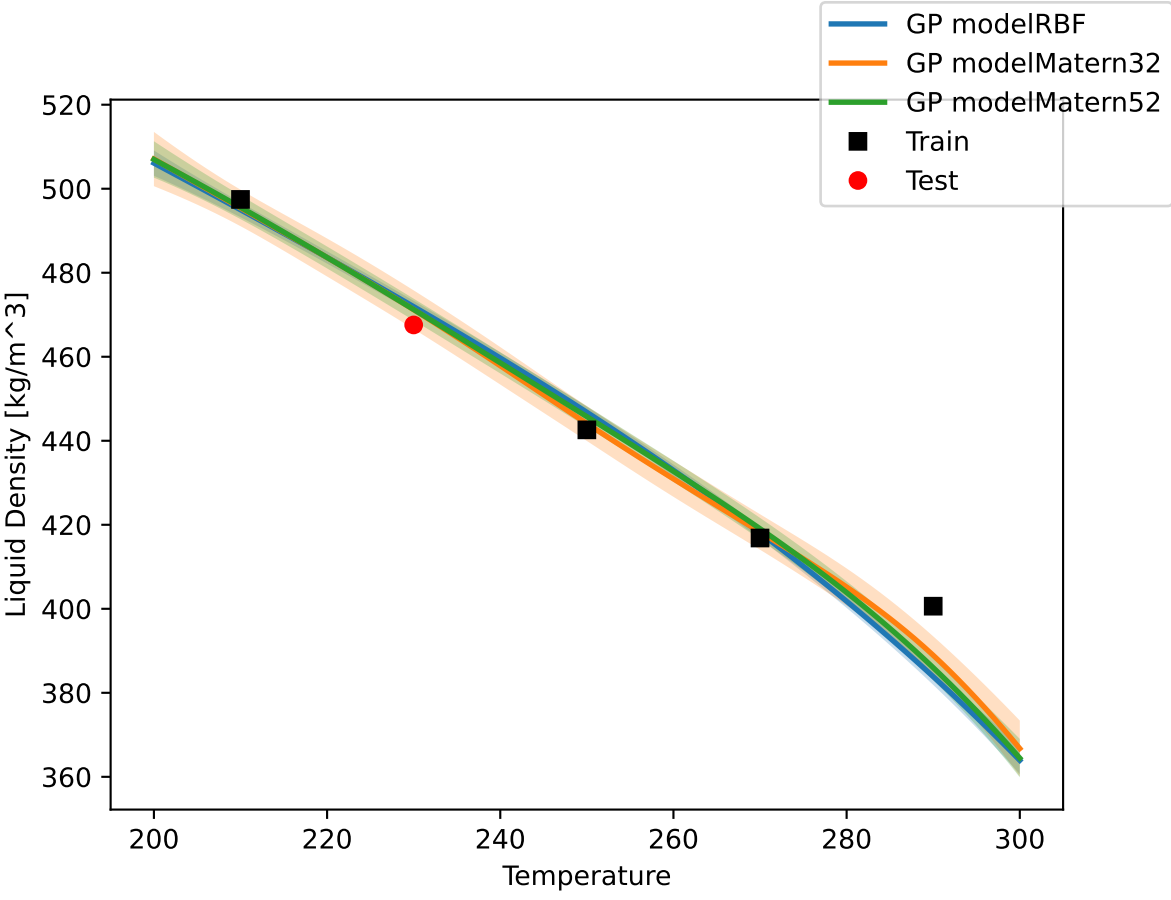
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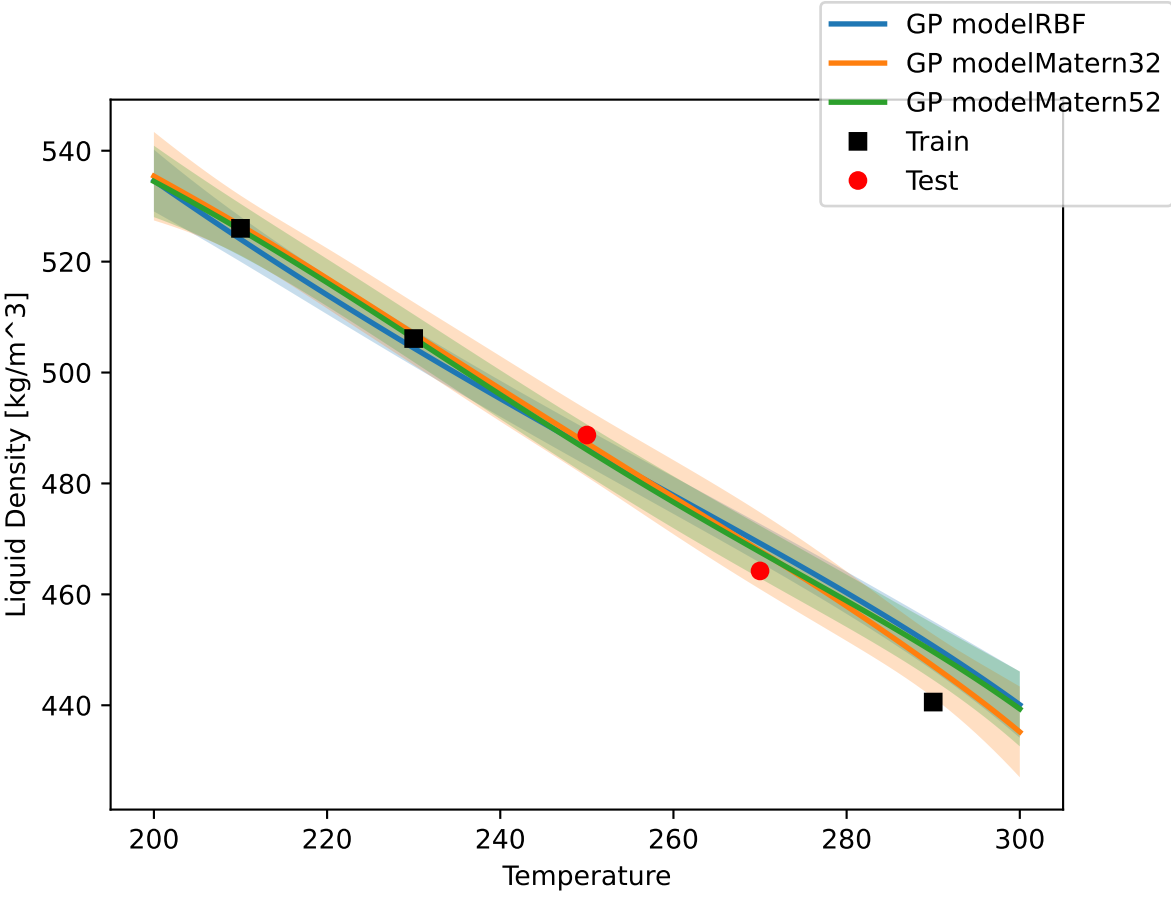
Temperature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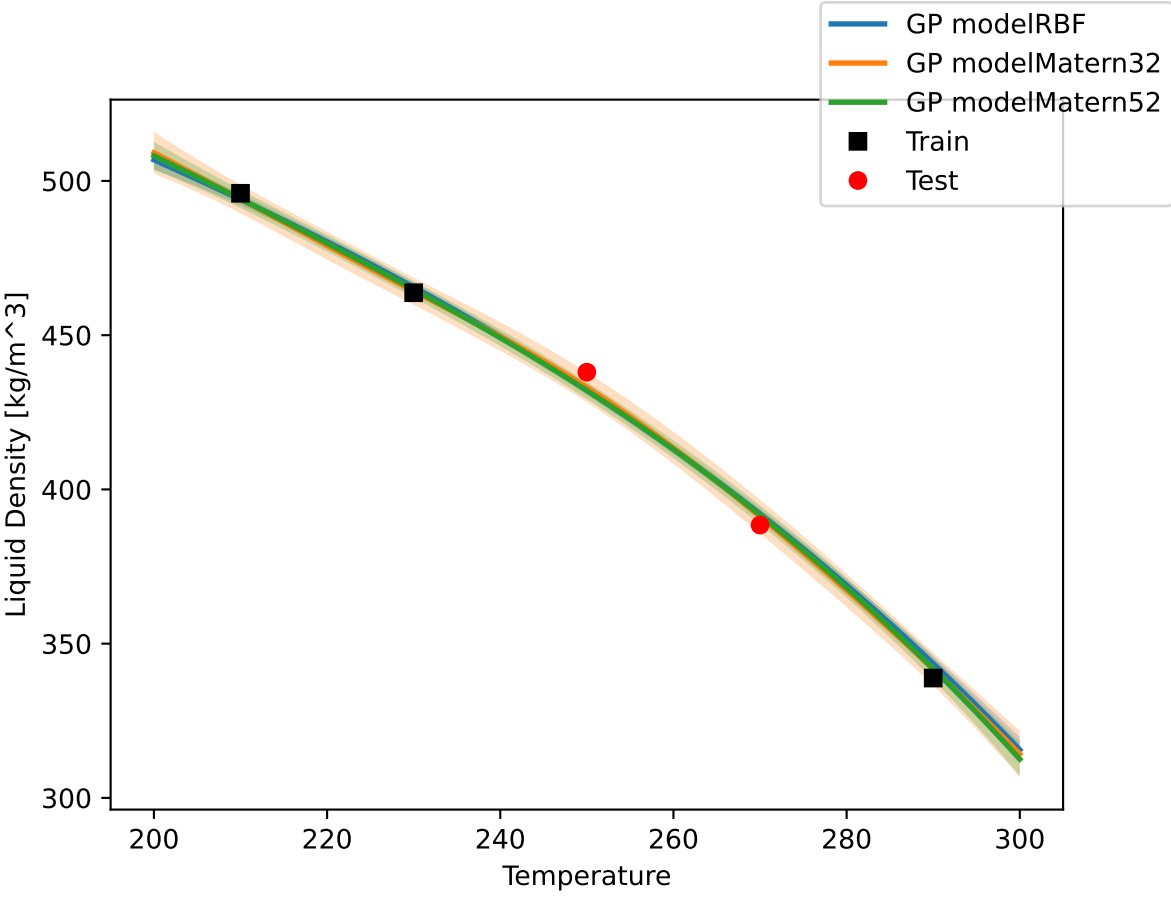
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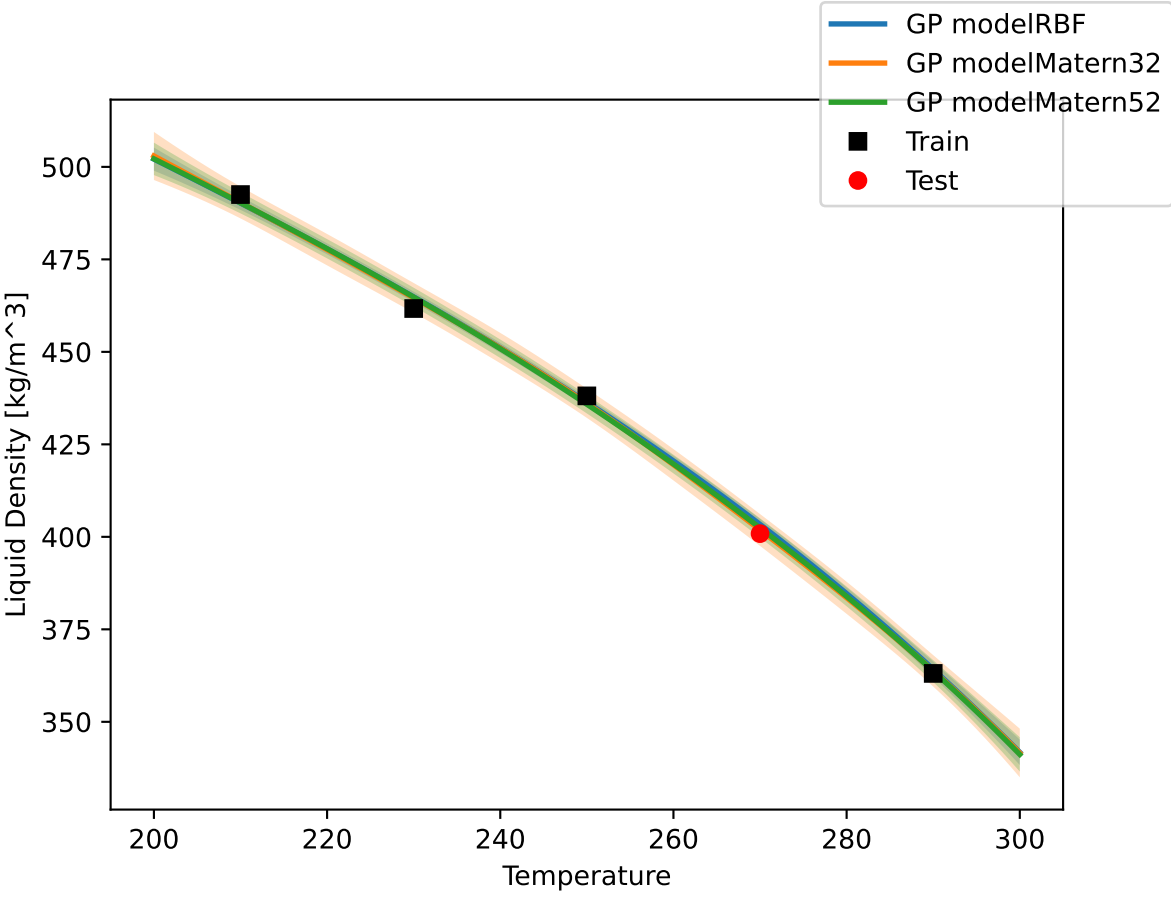
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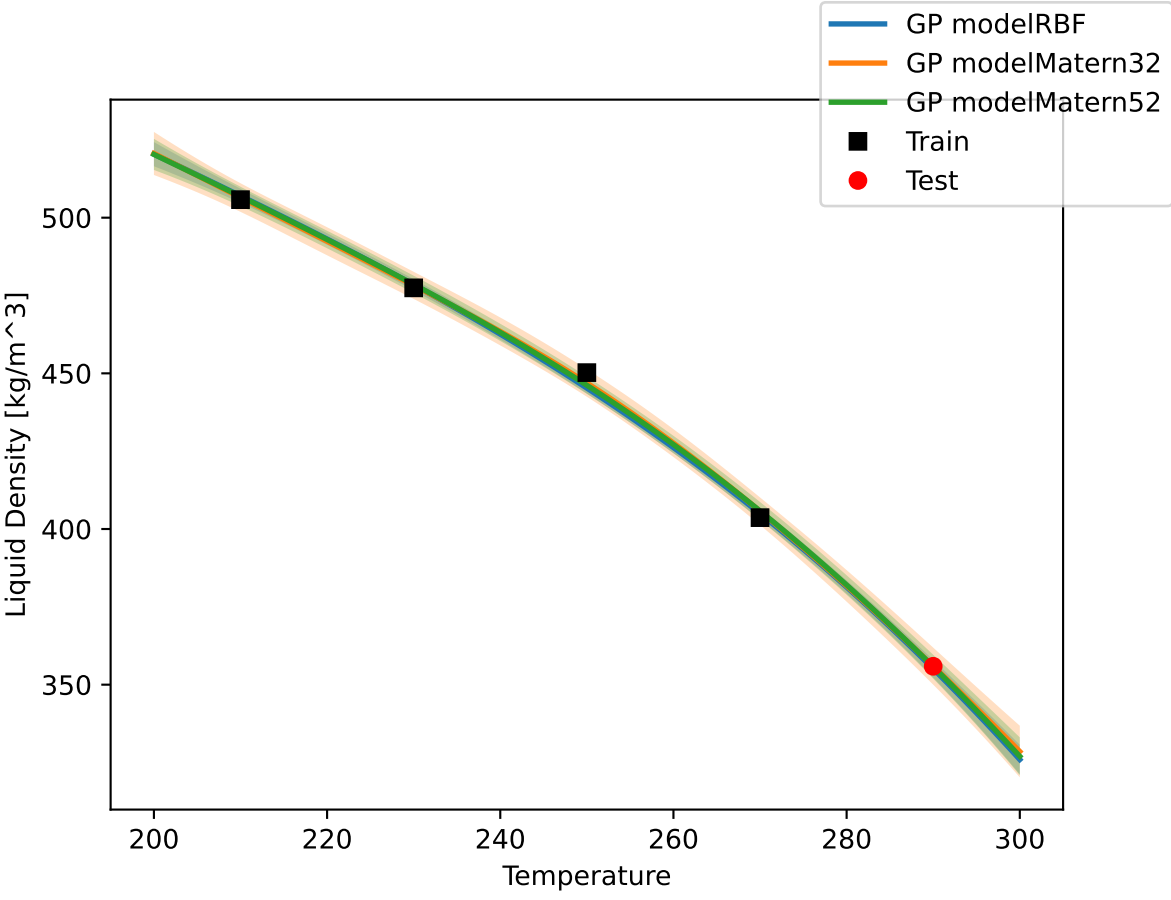
Temperature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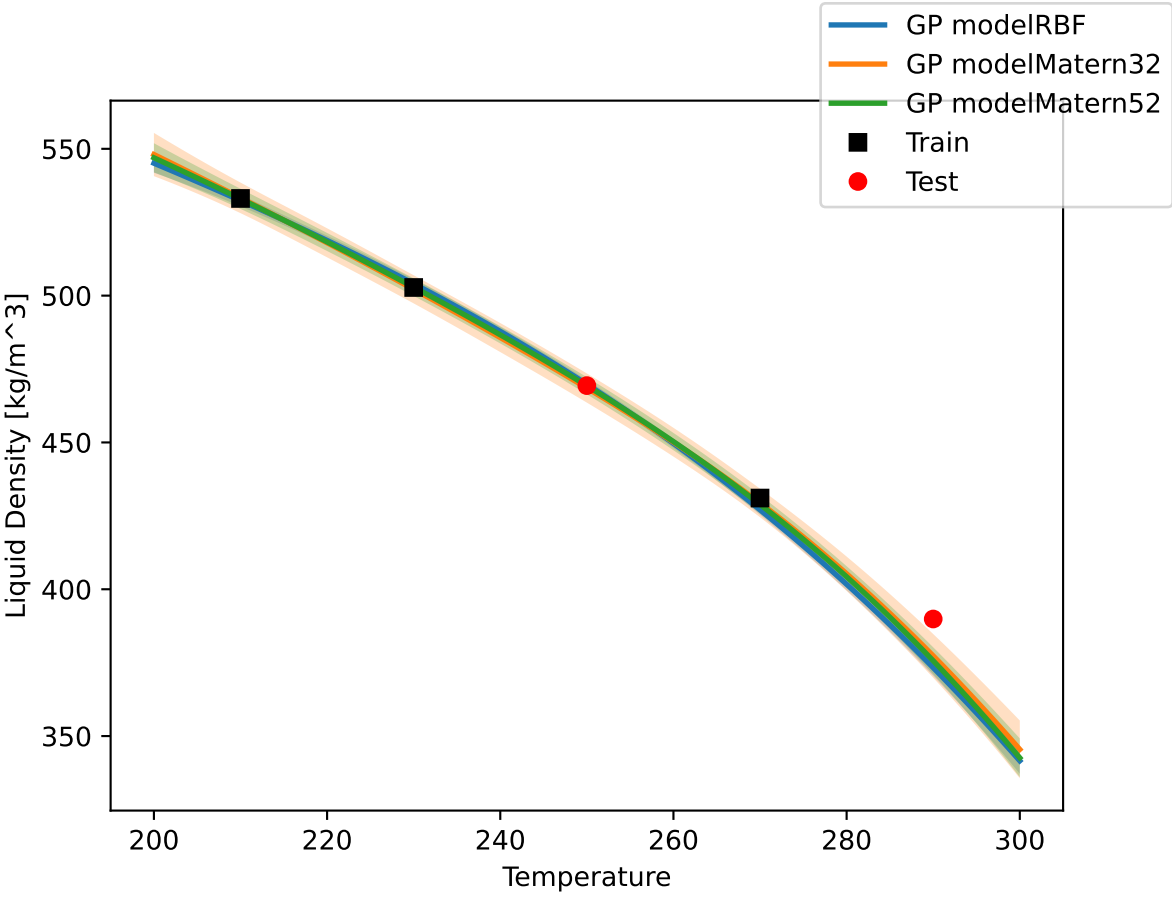
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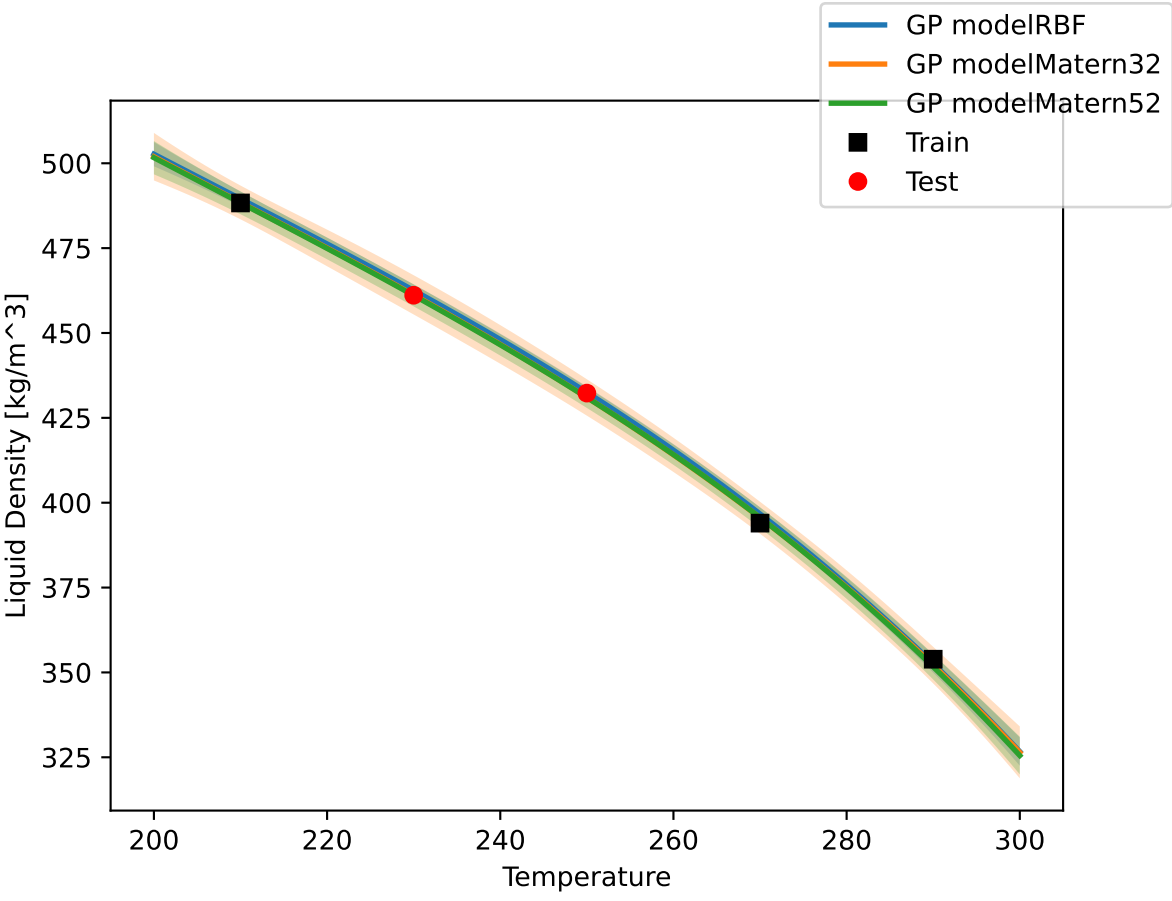
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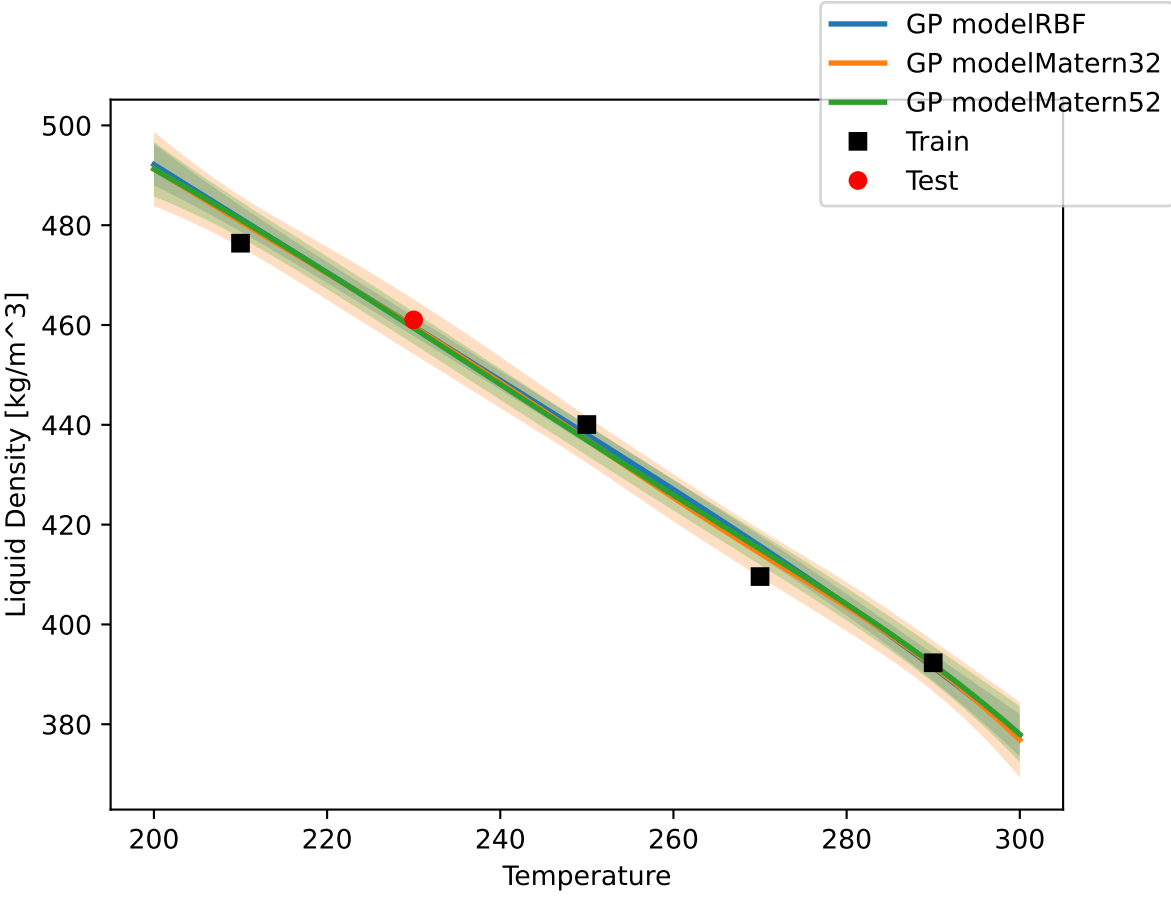
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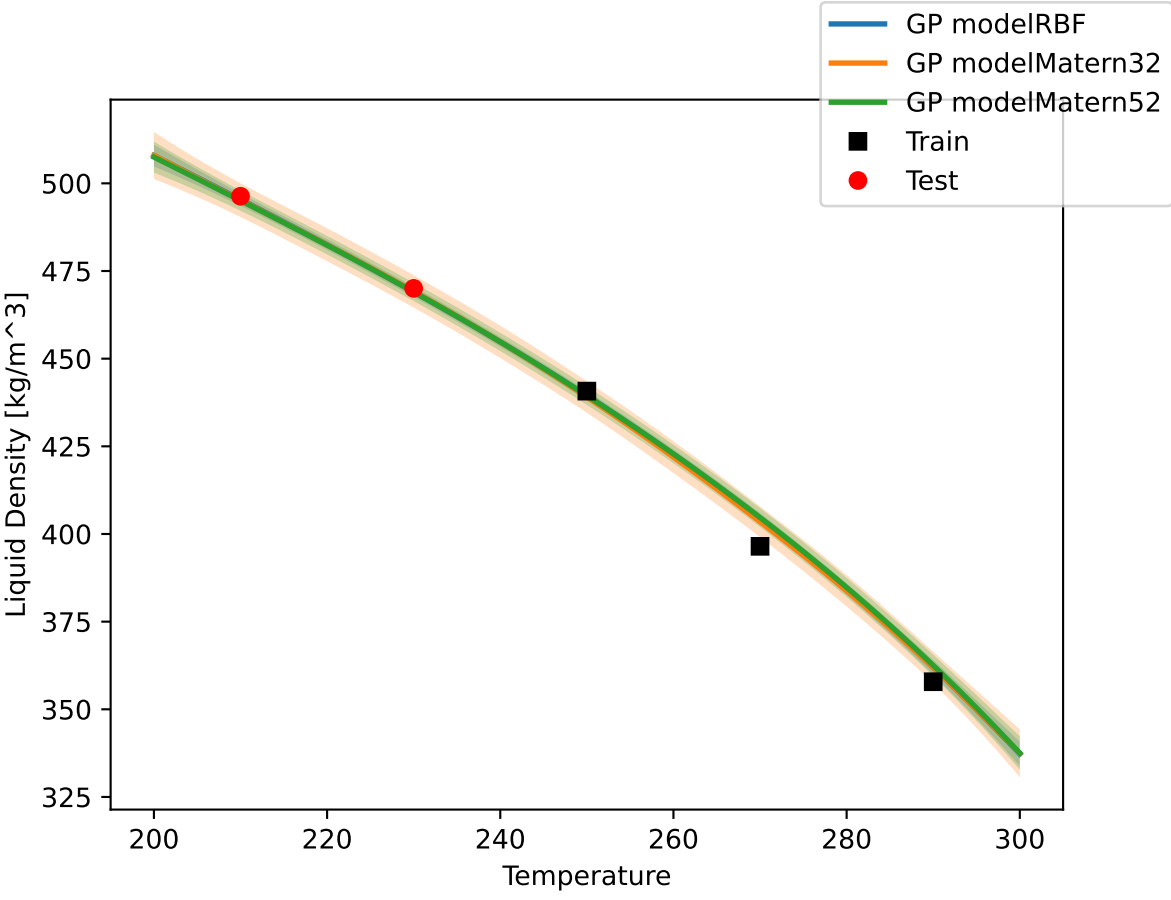
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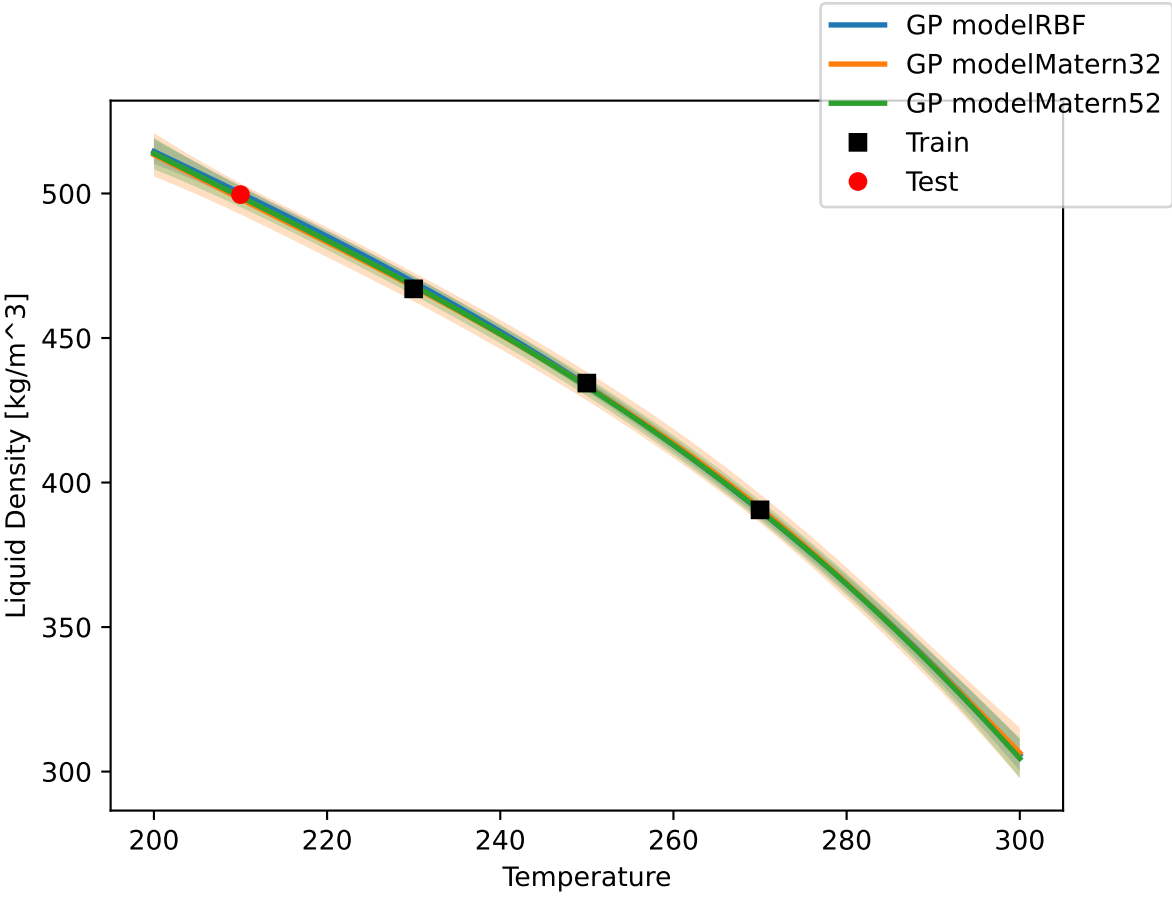
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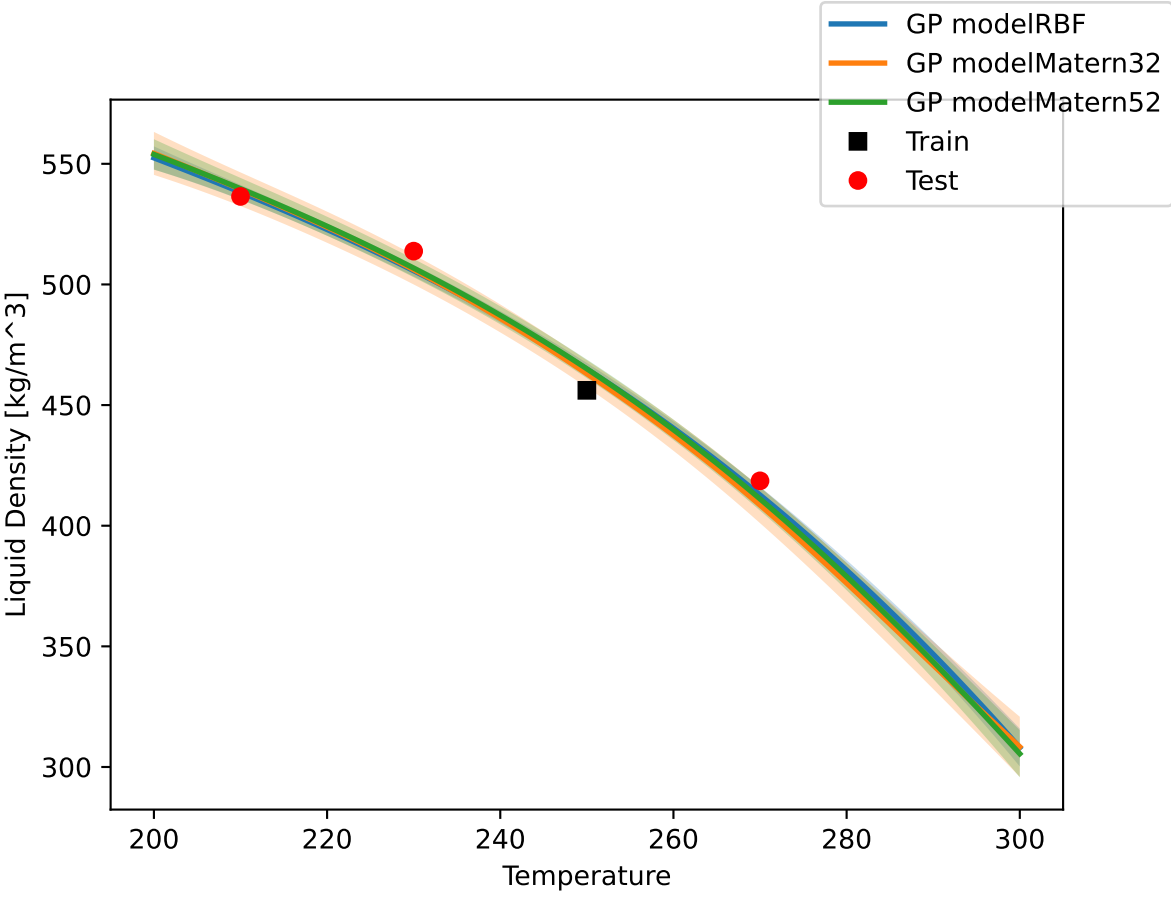
Temperature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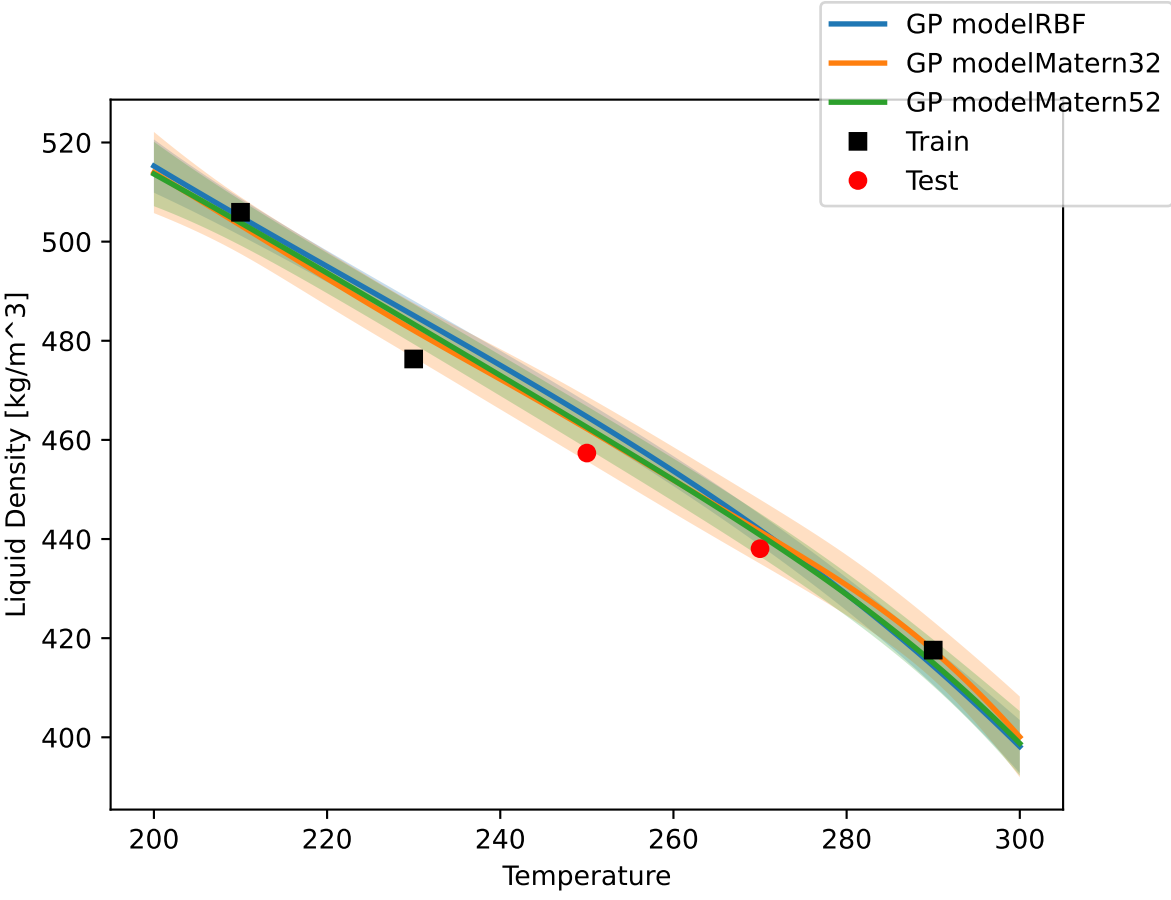
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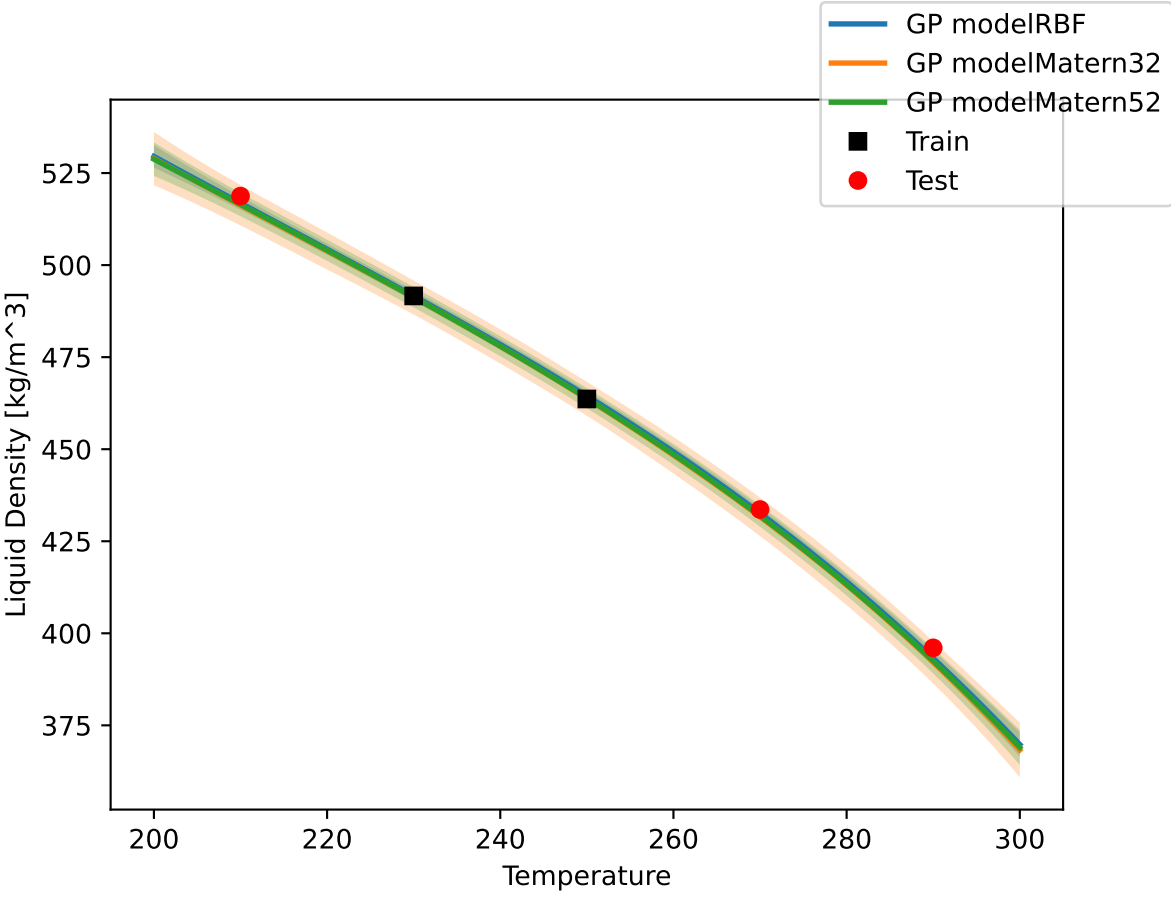
Temperature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Train
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Liquid Density [kg/m^3]
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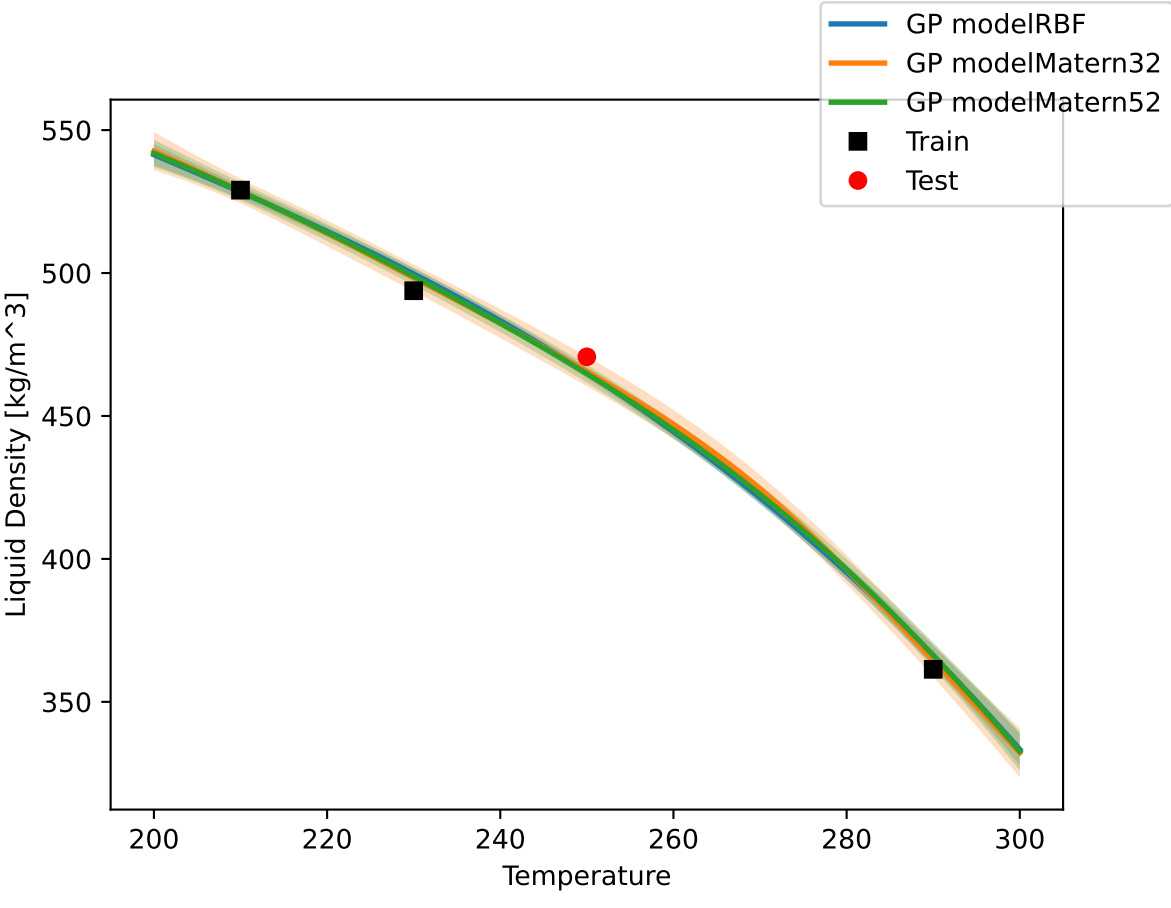
Temperature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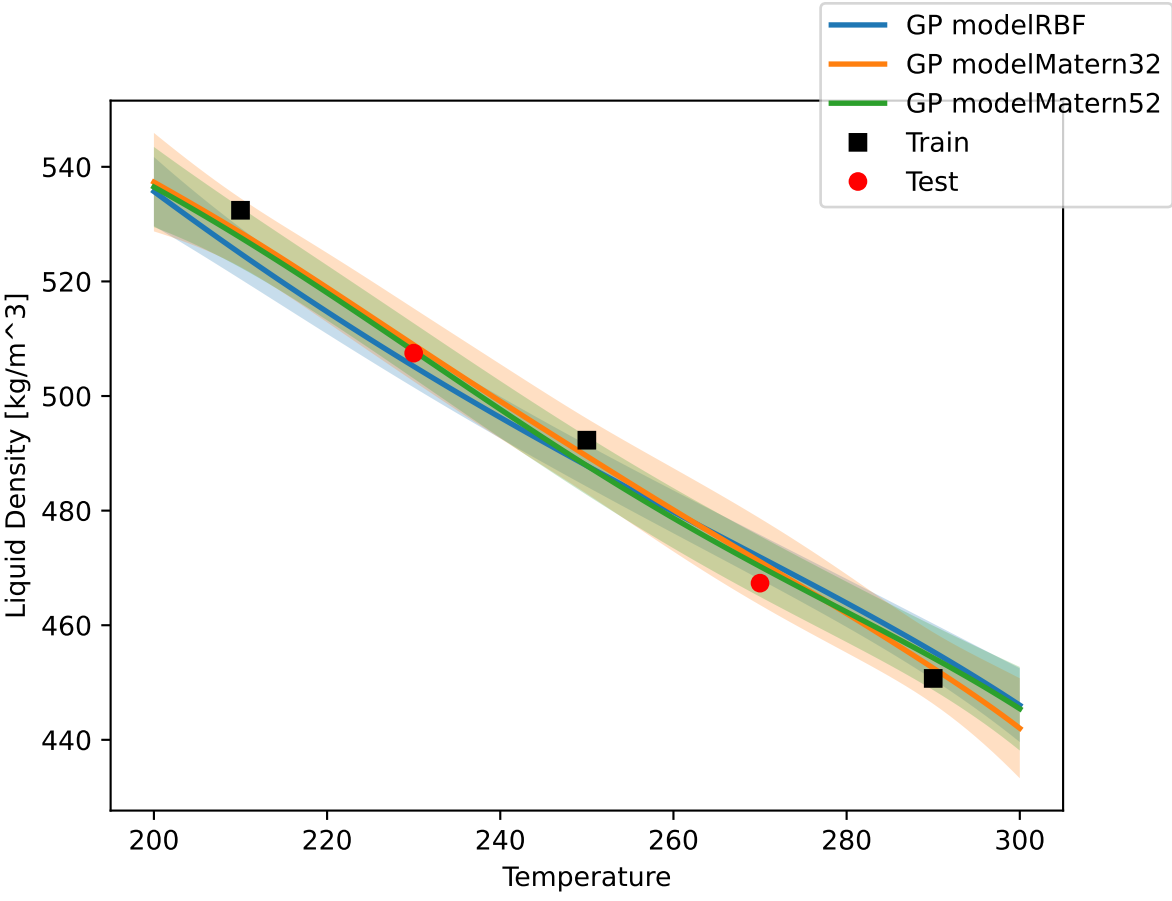
Temperature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Train
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Liquid Density [kg/m^3]
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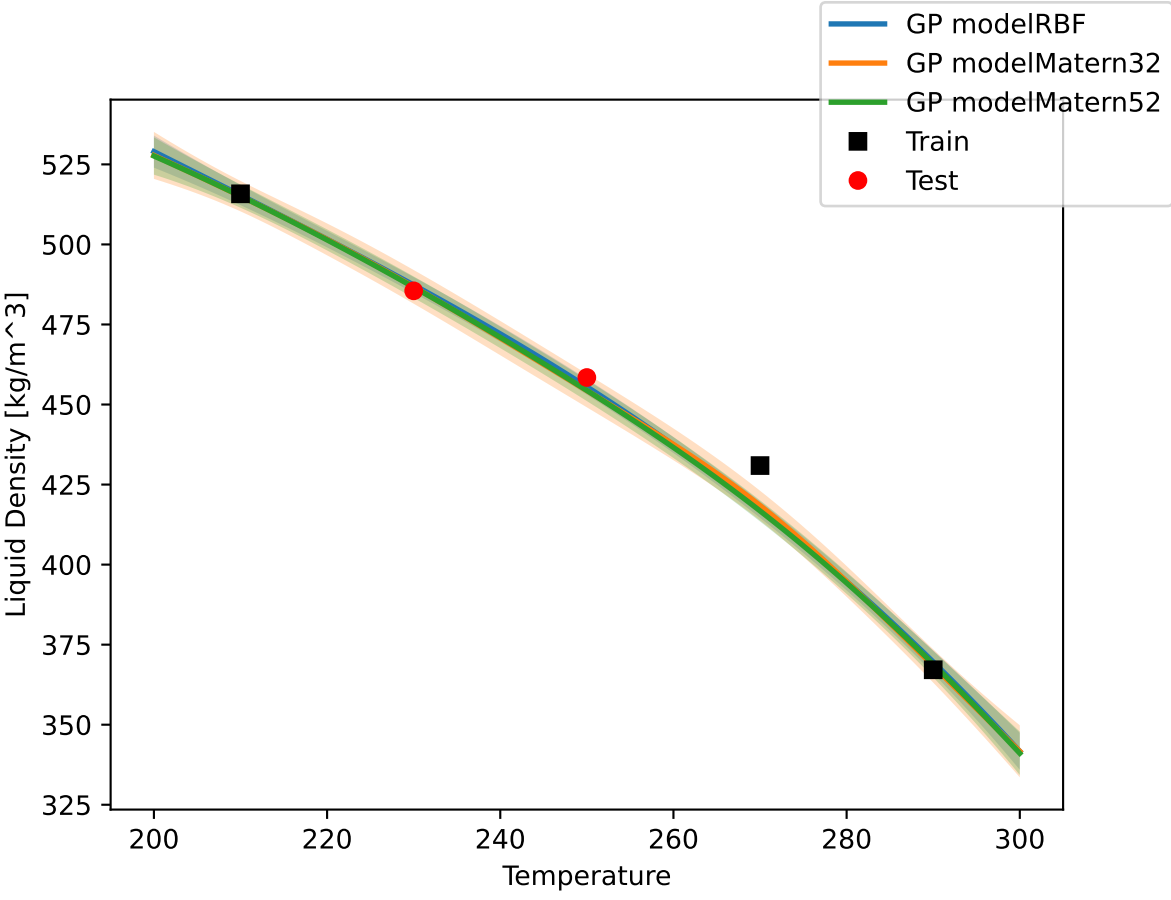
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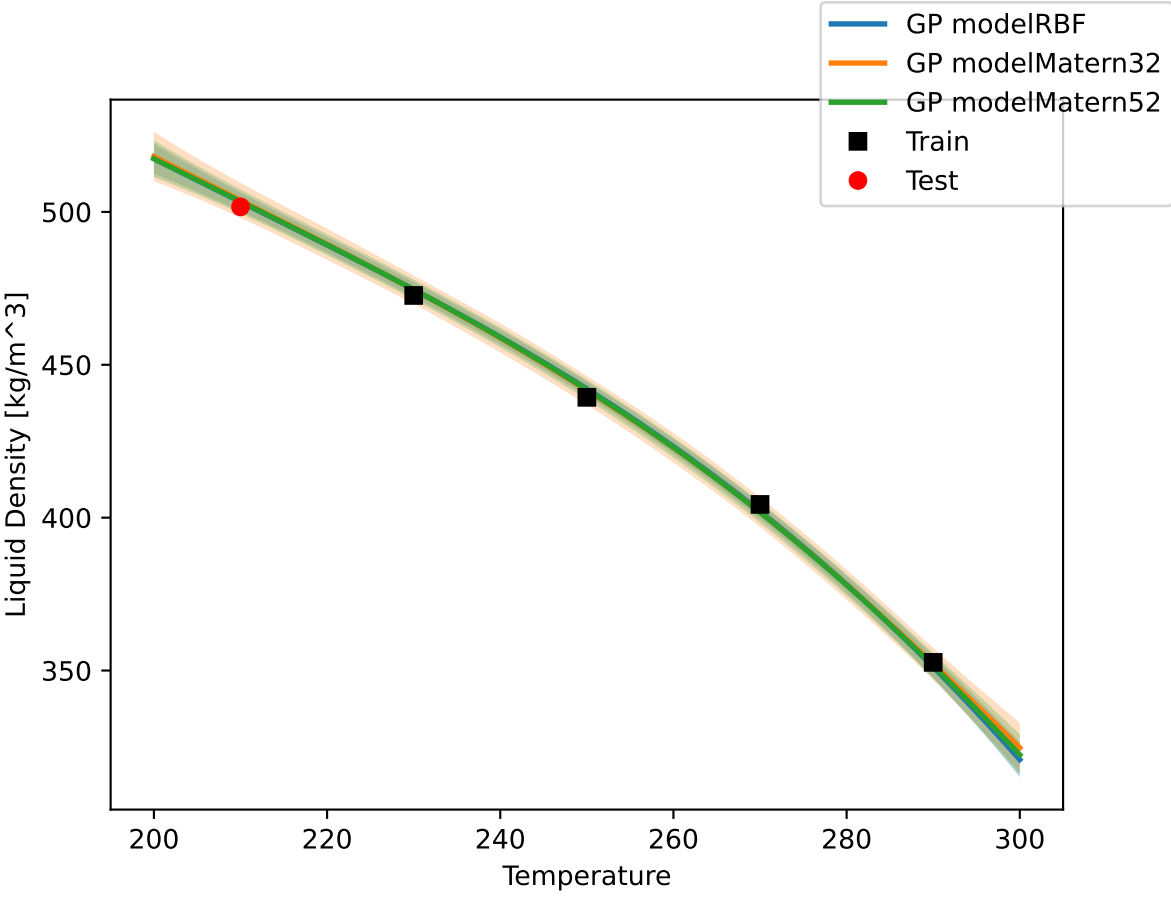
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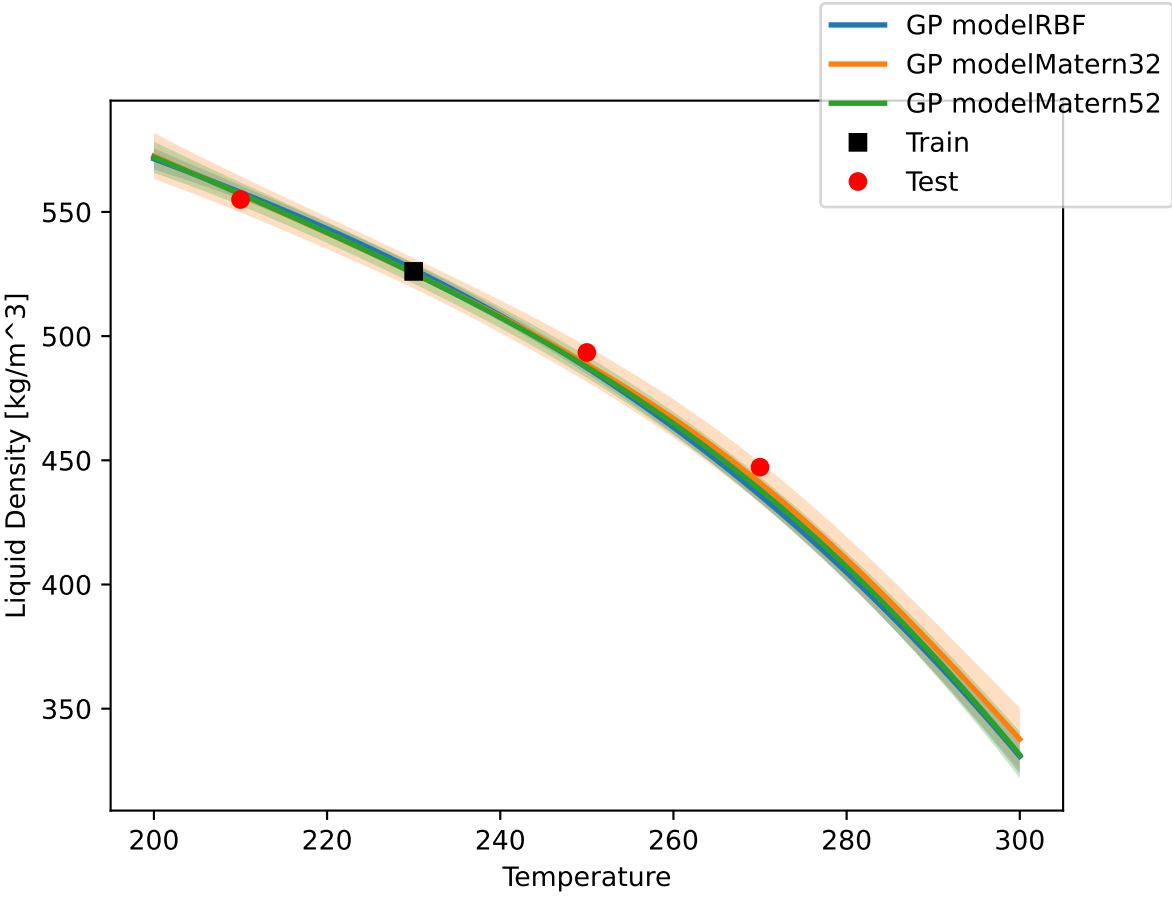
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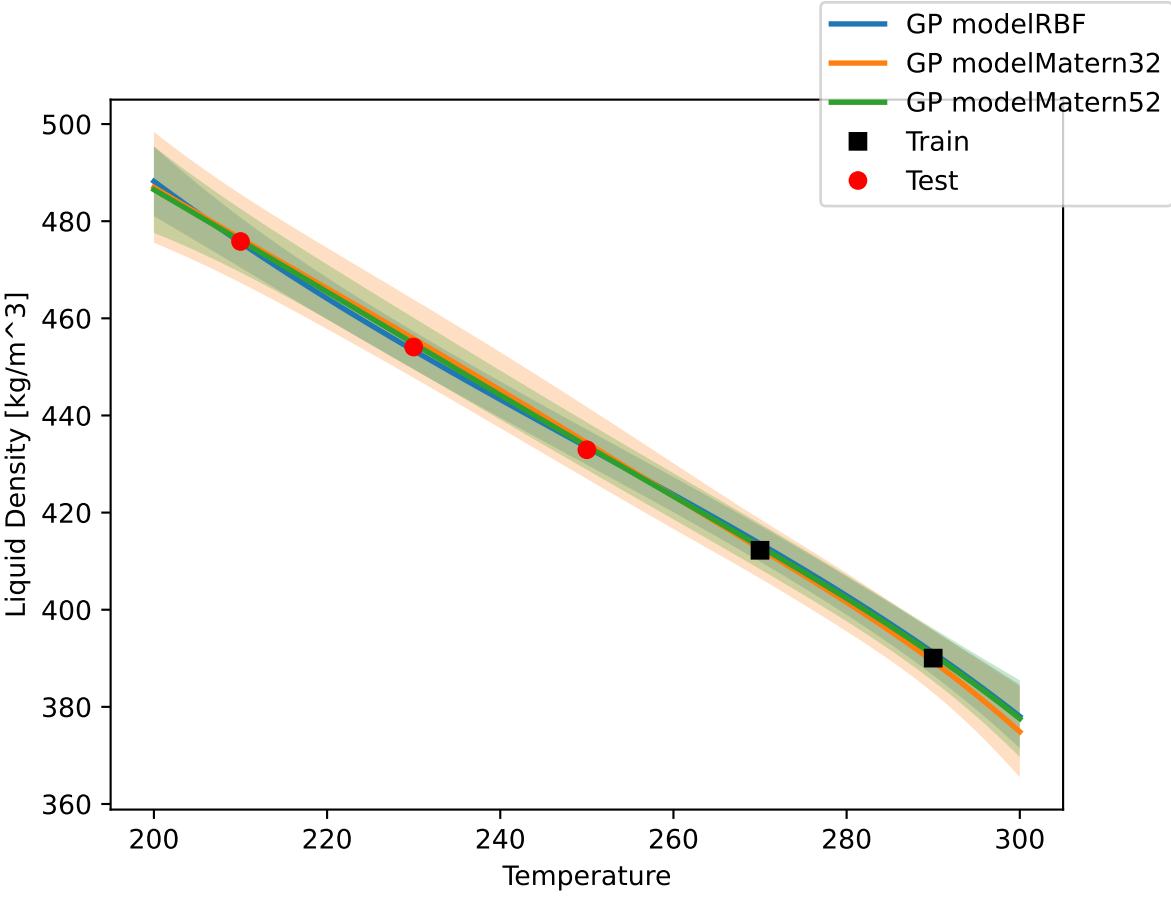
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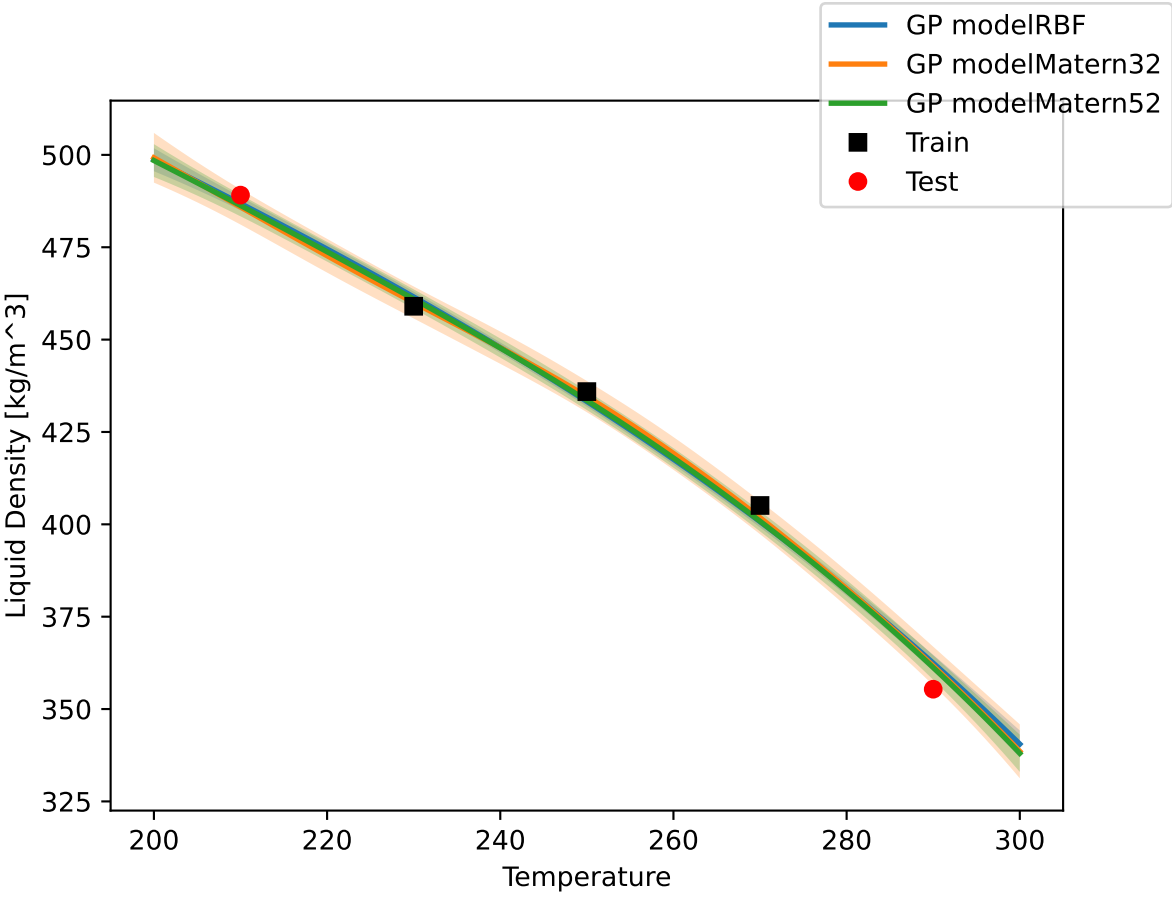
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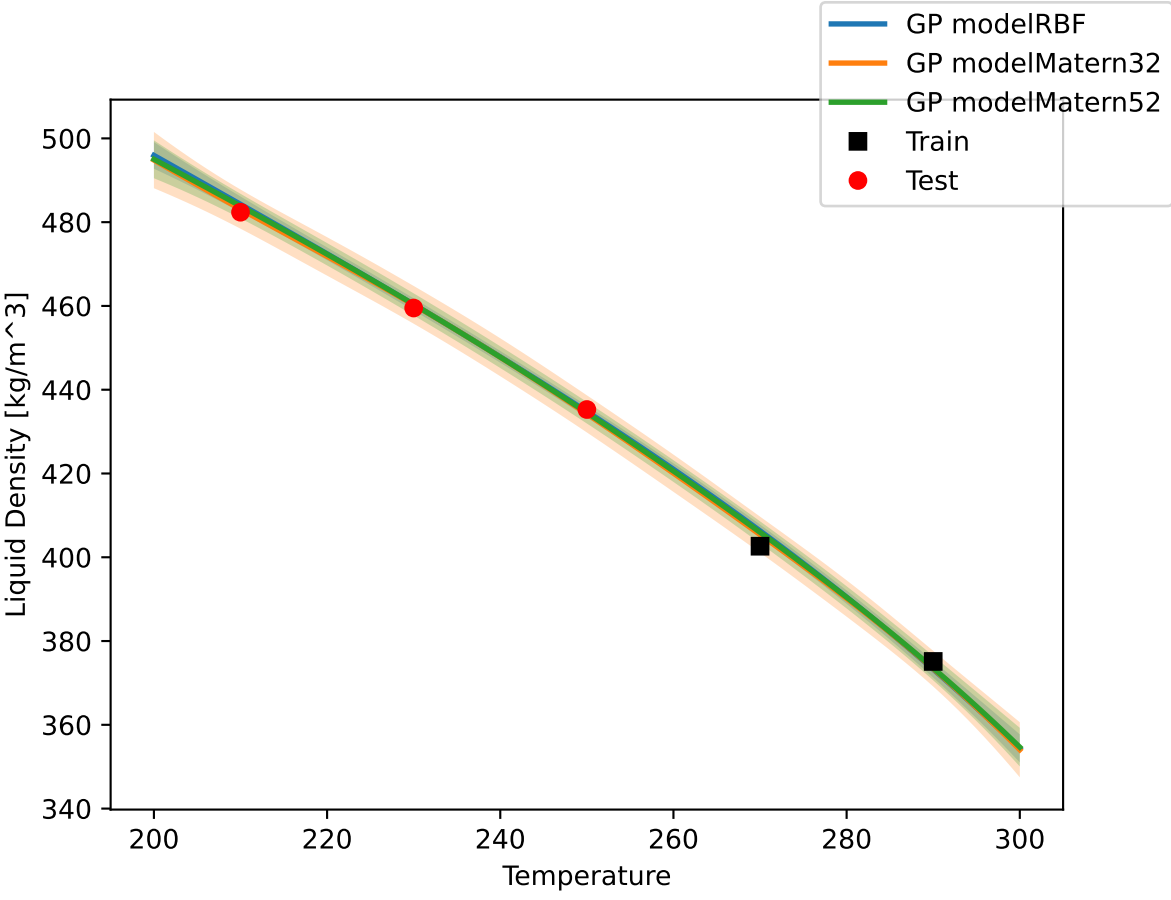
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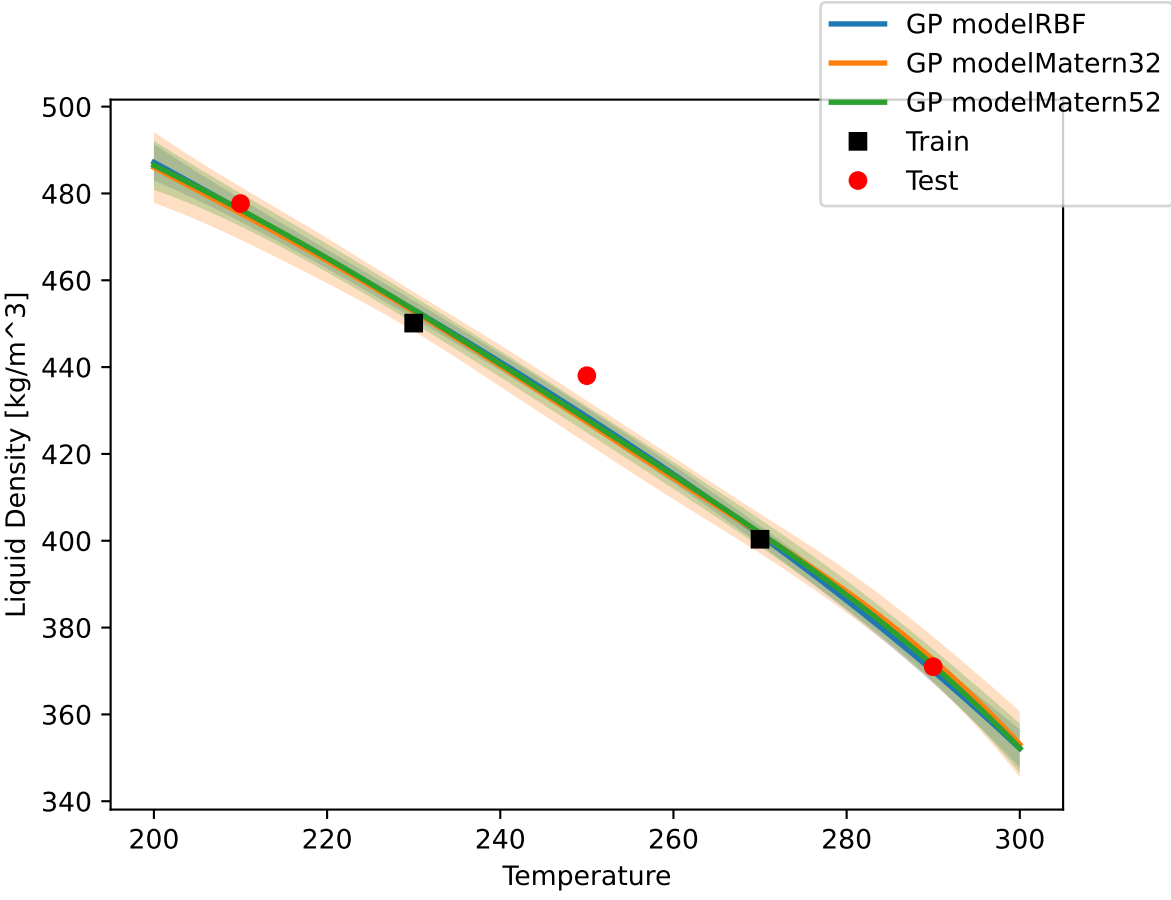
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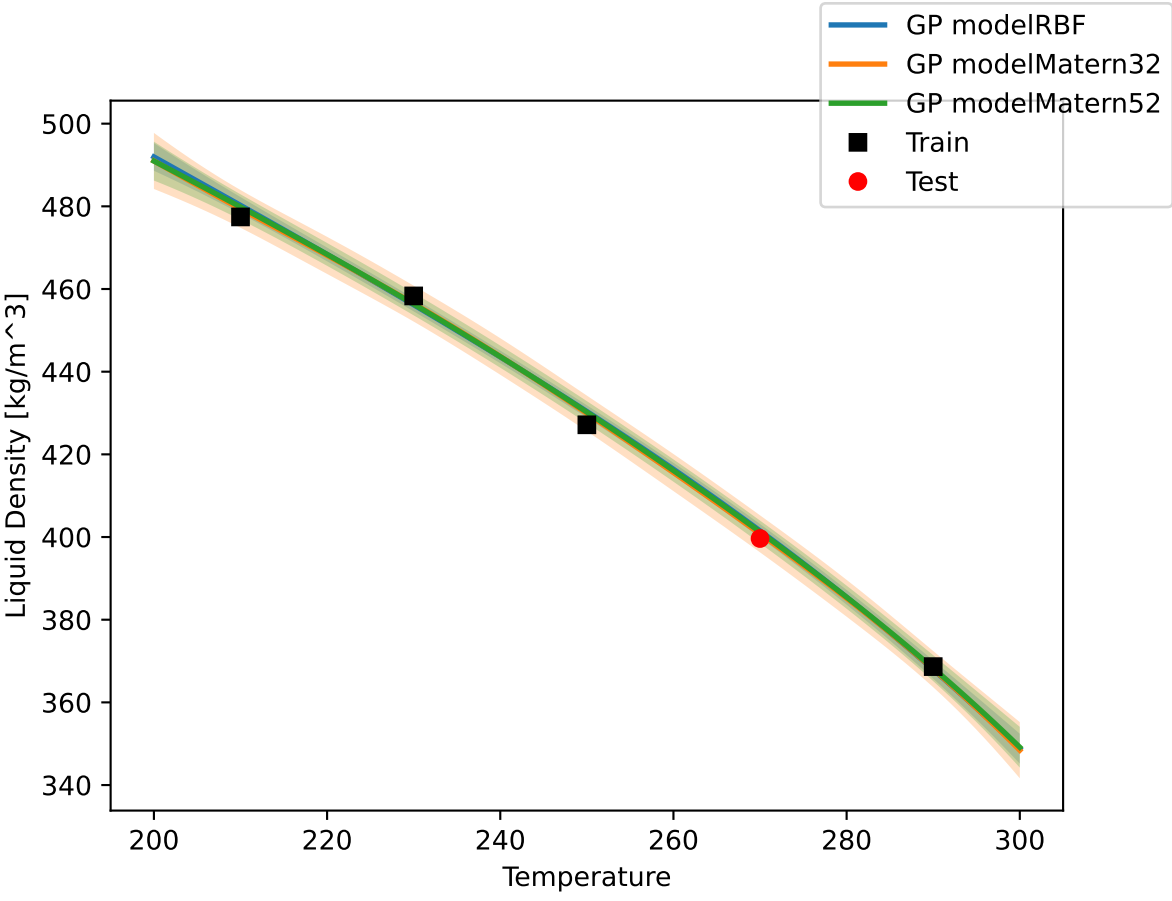
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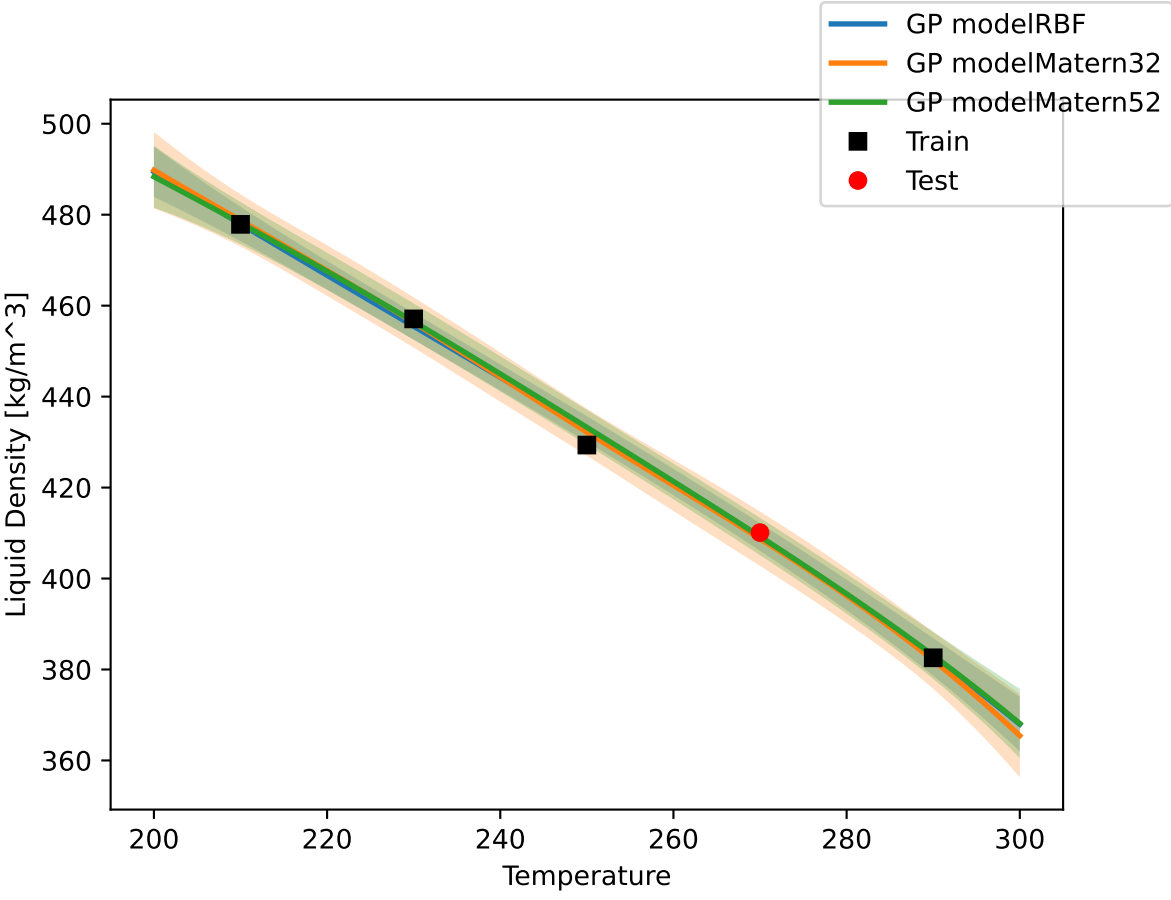
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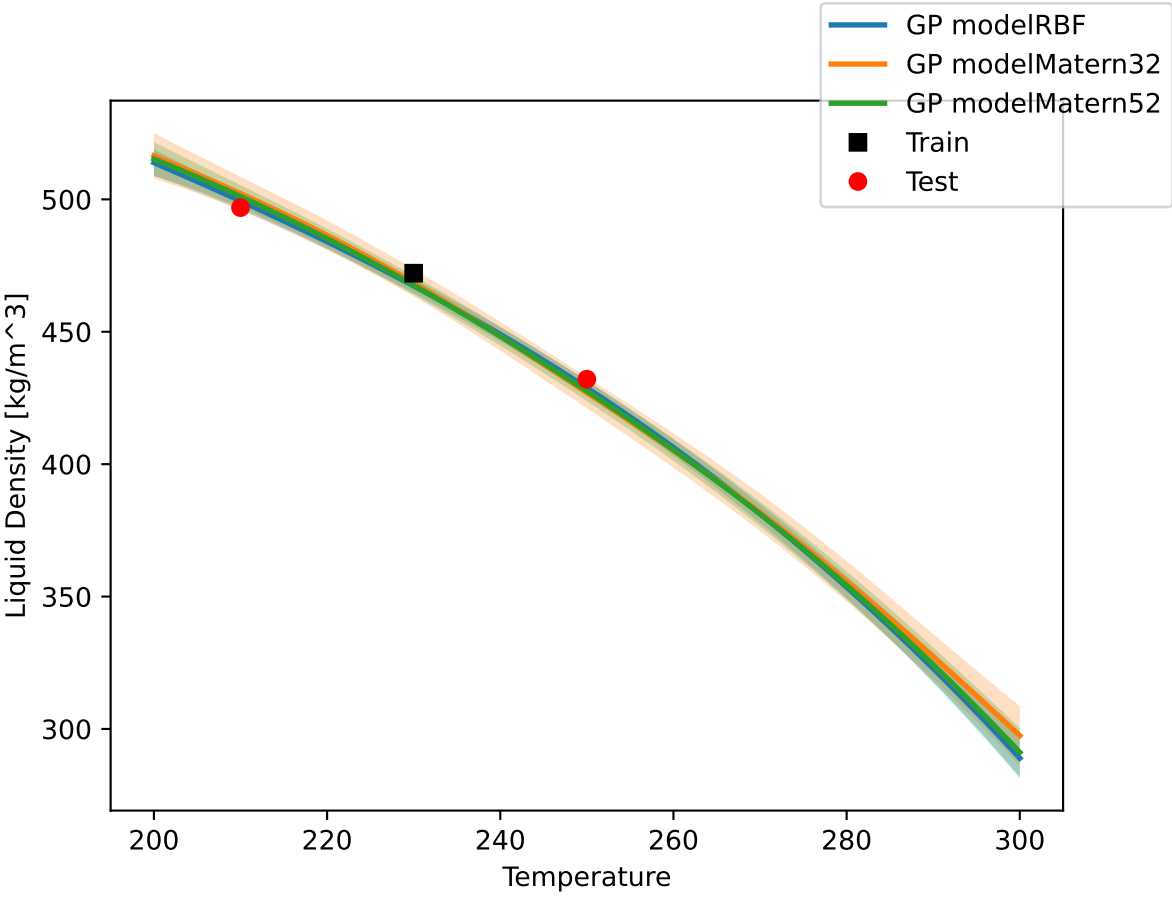
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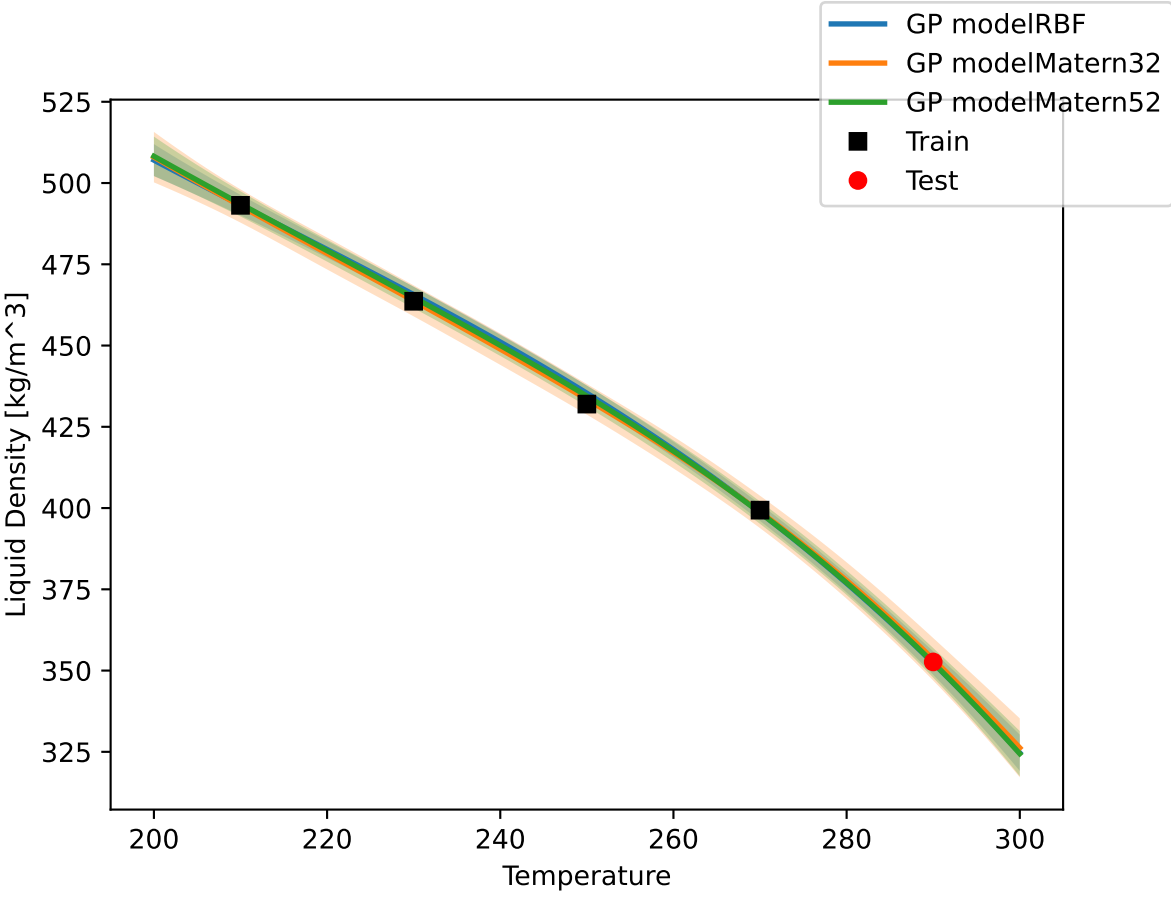
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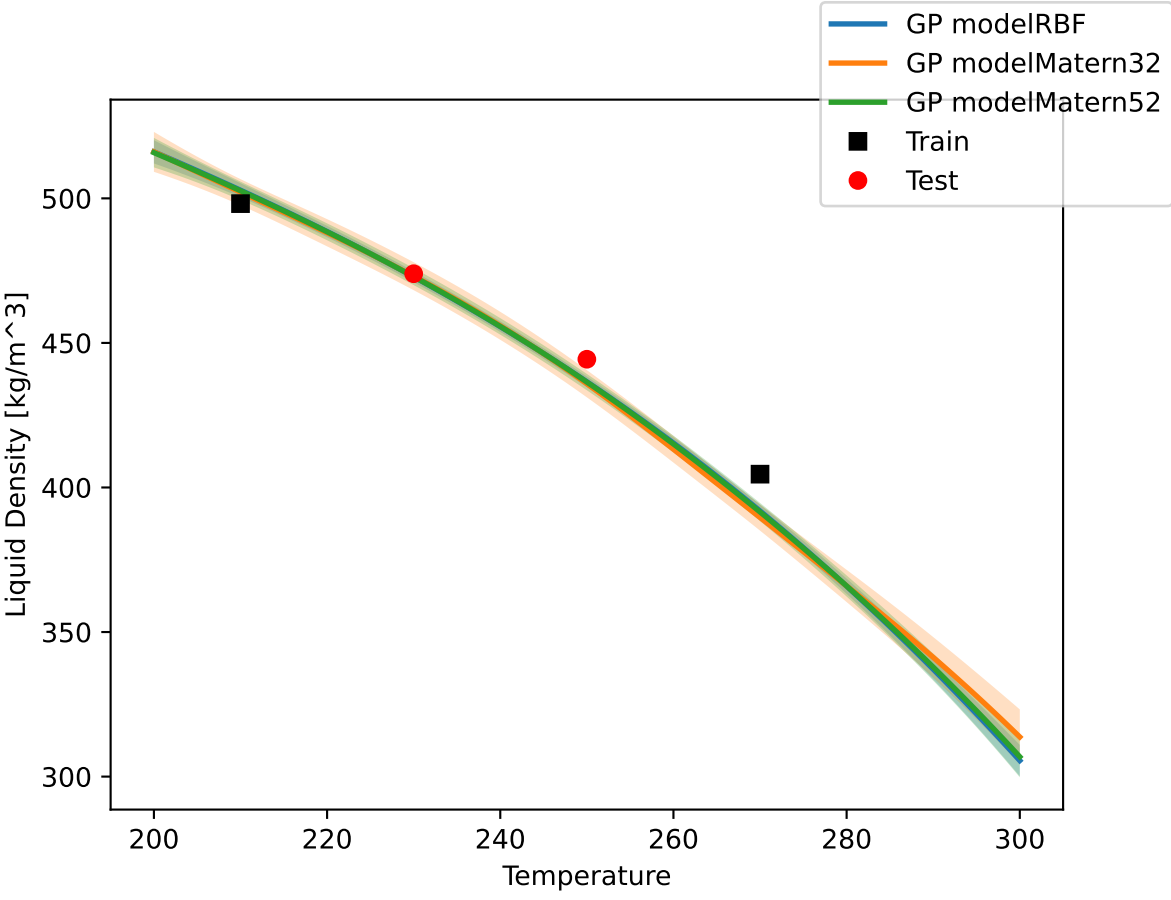
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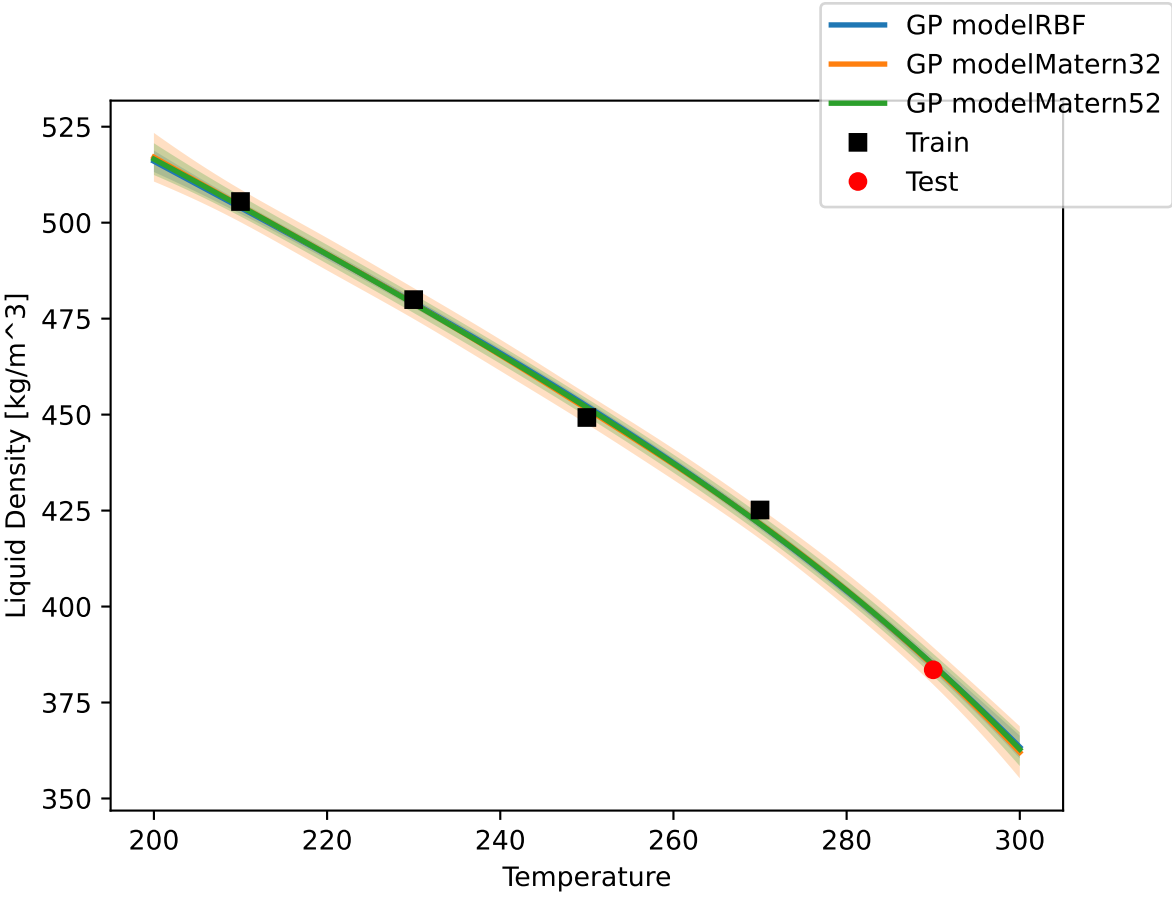
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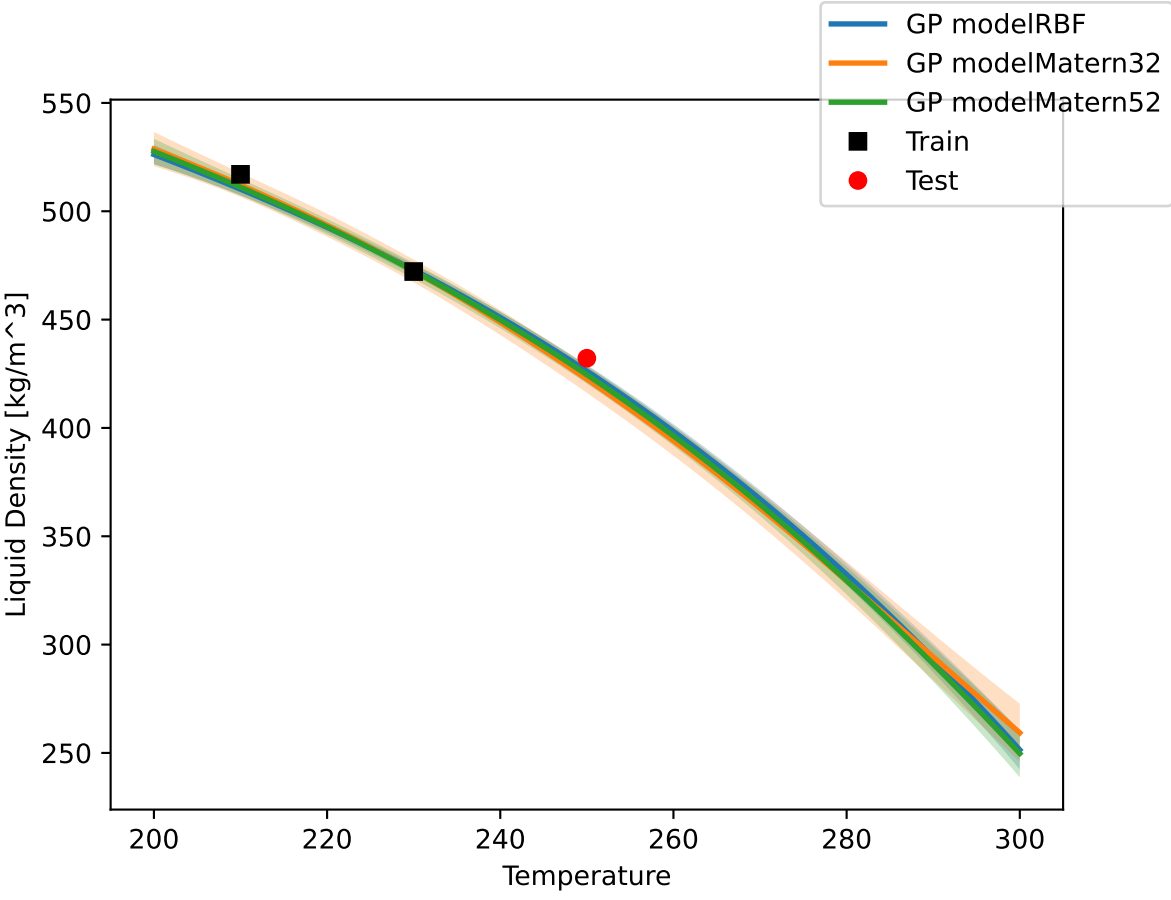
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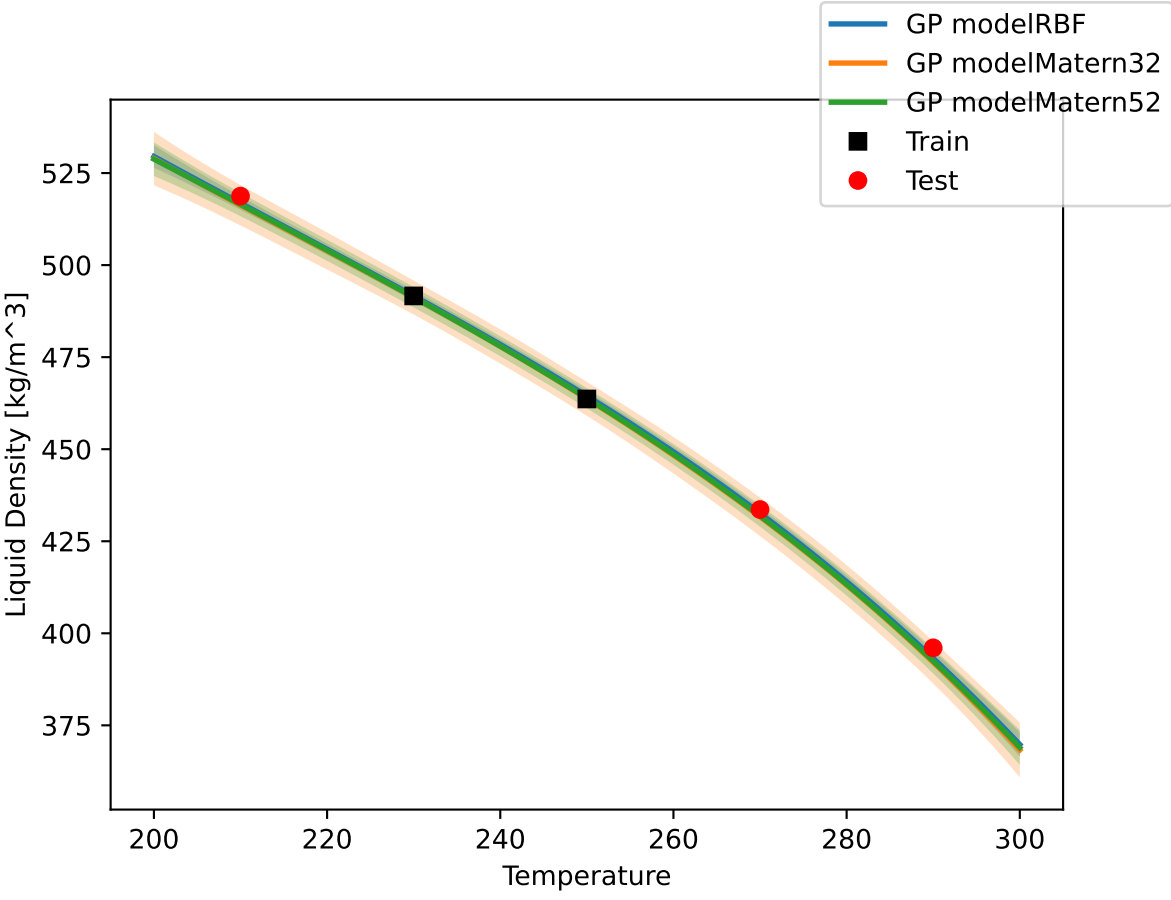
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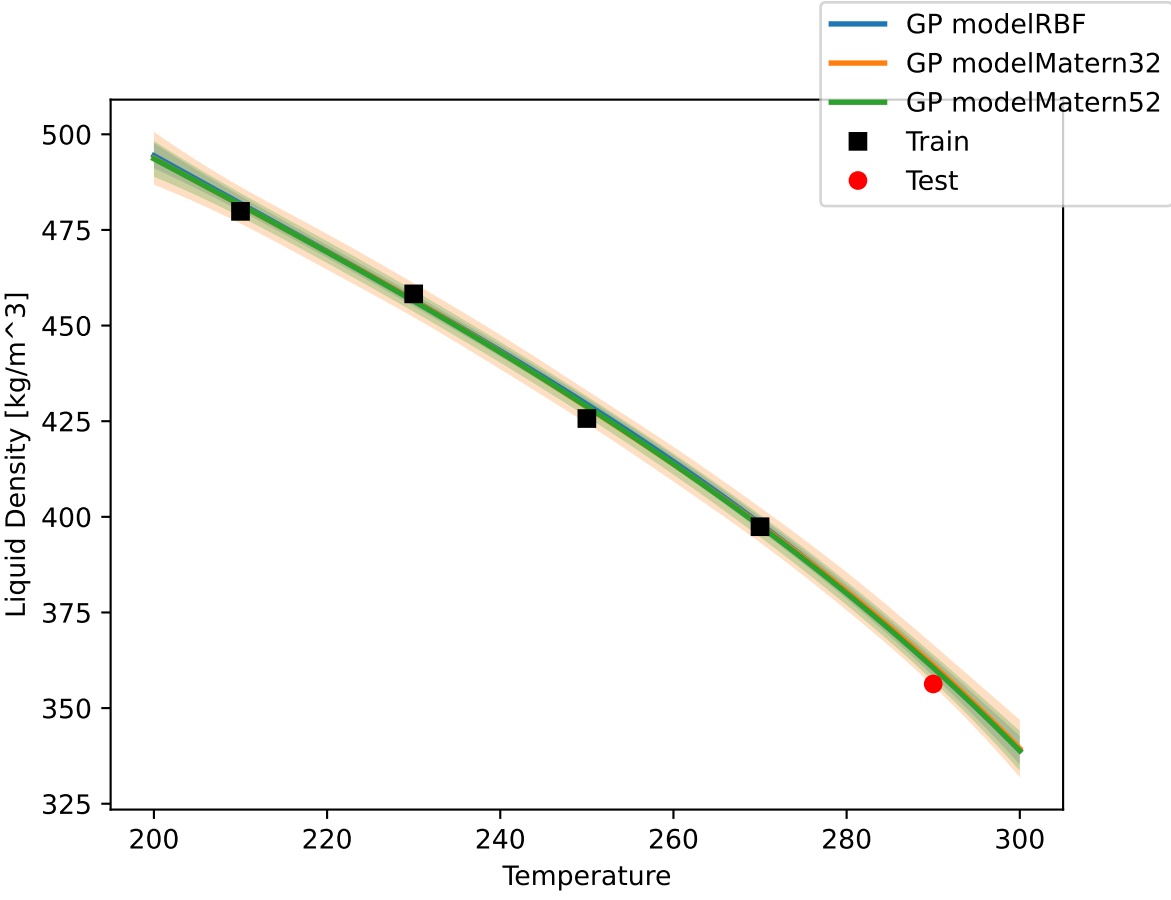
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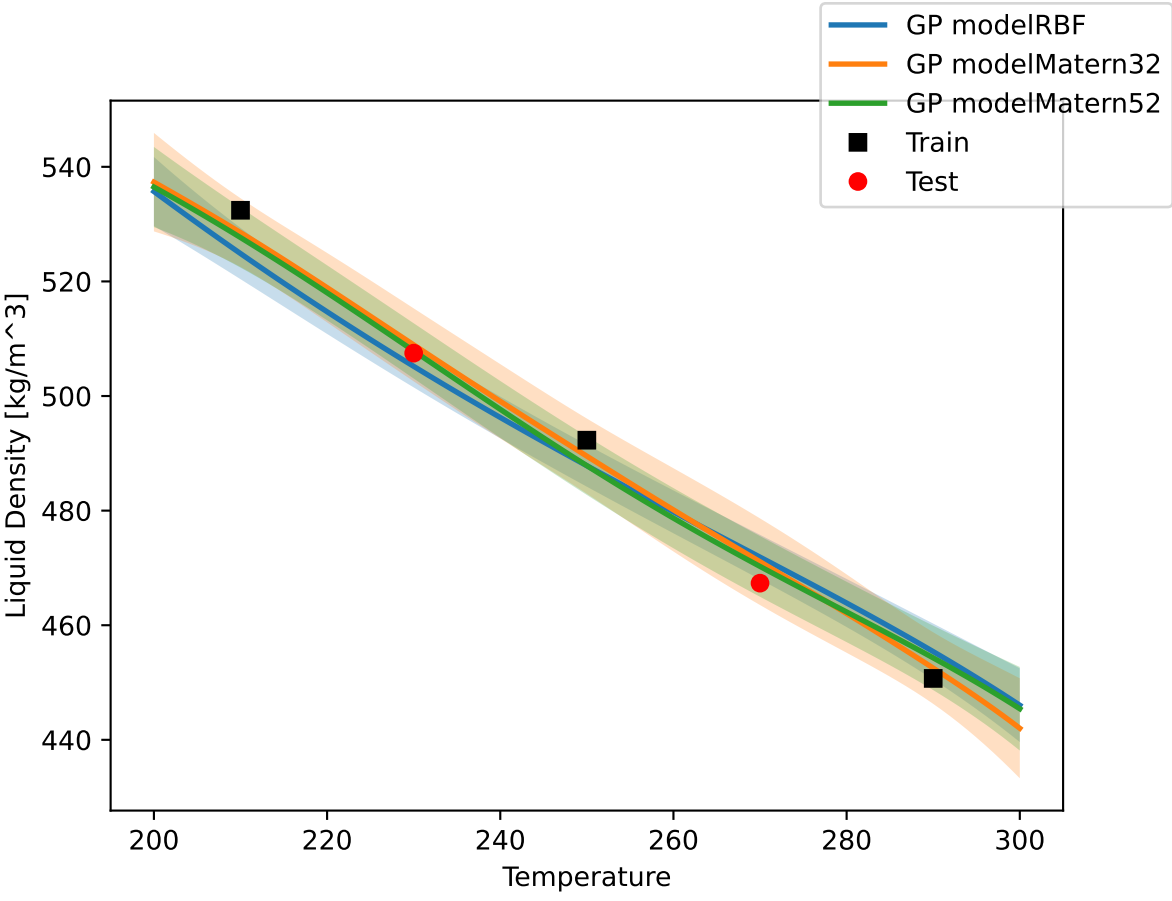
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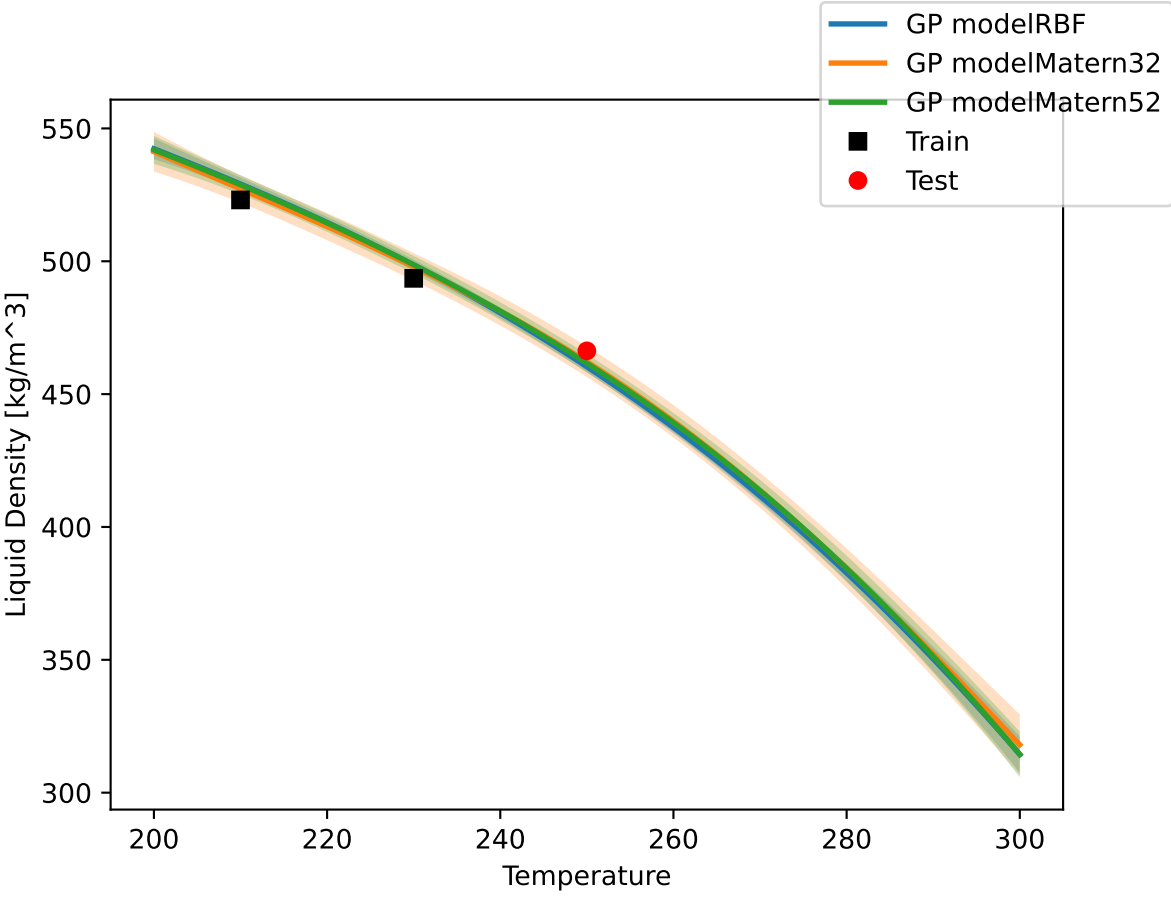
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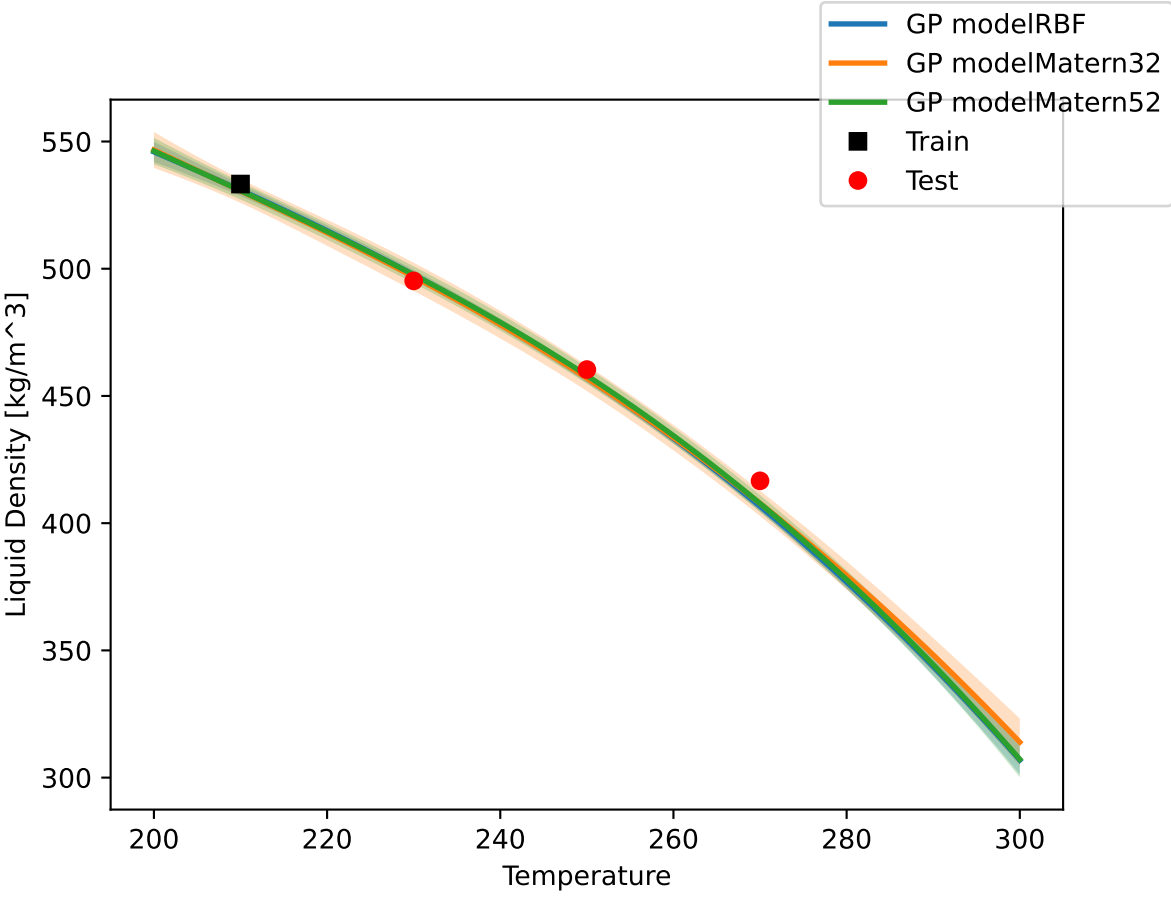
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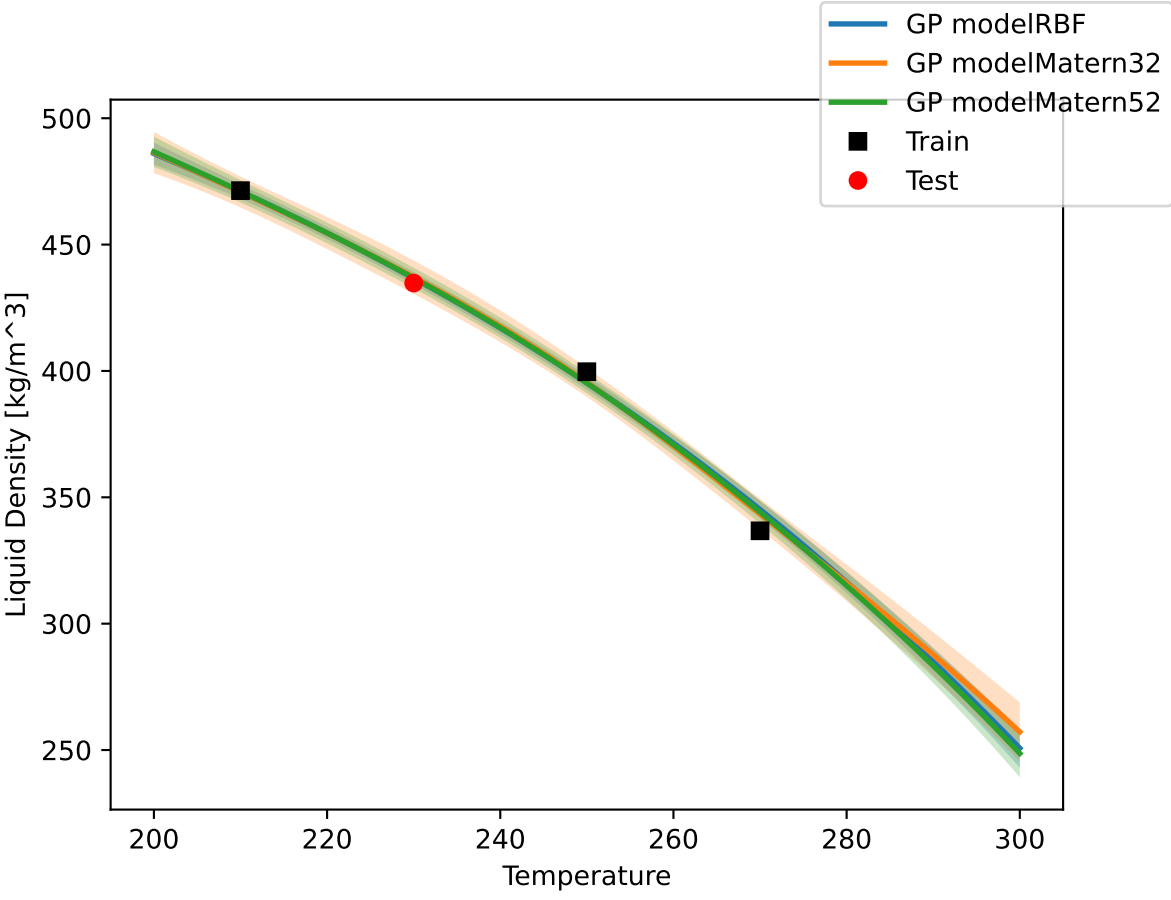
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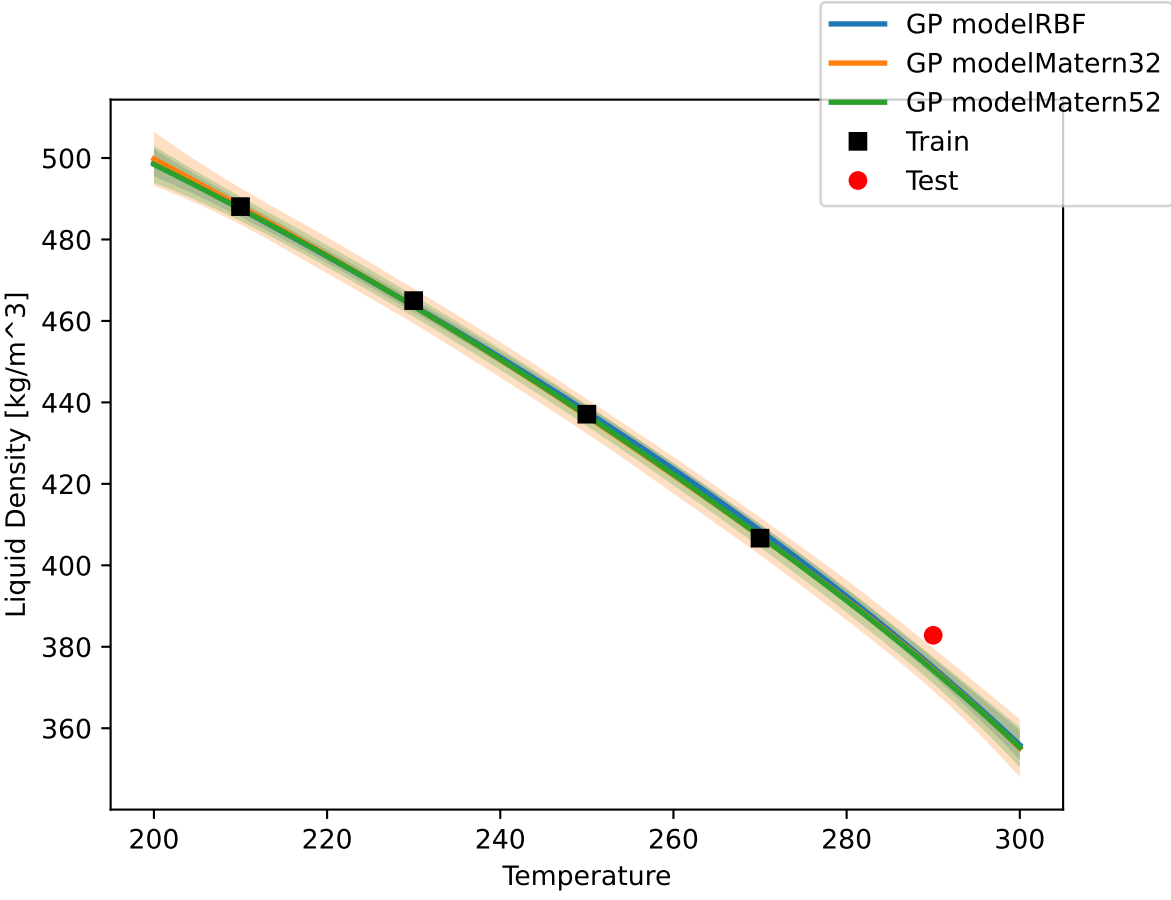
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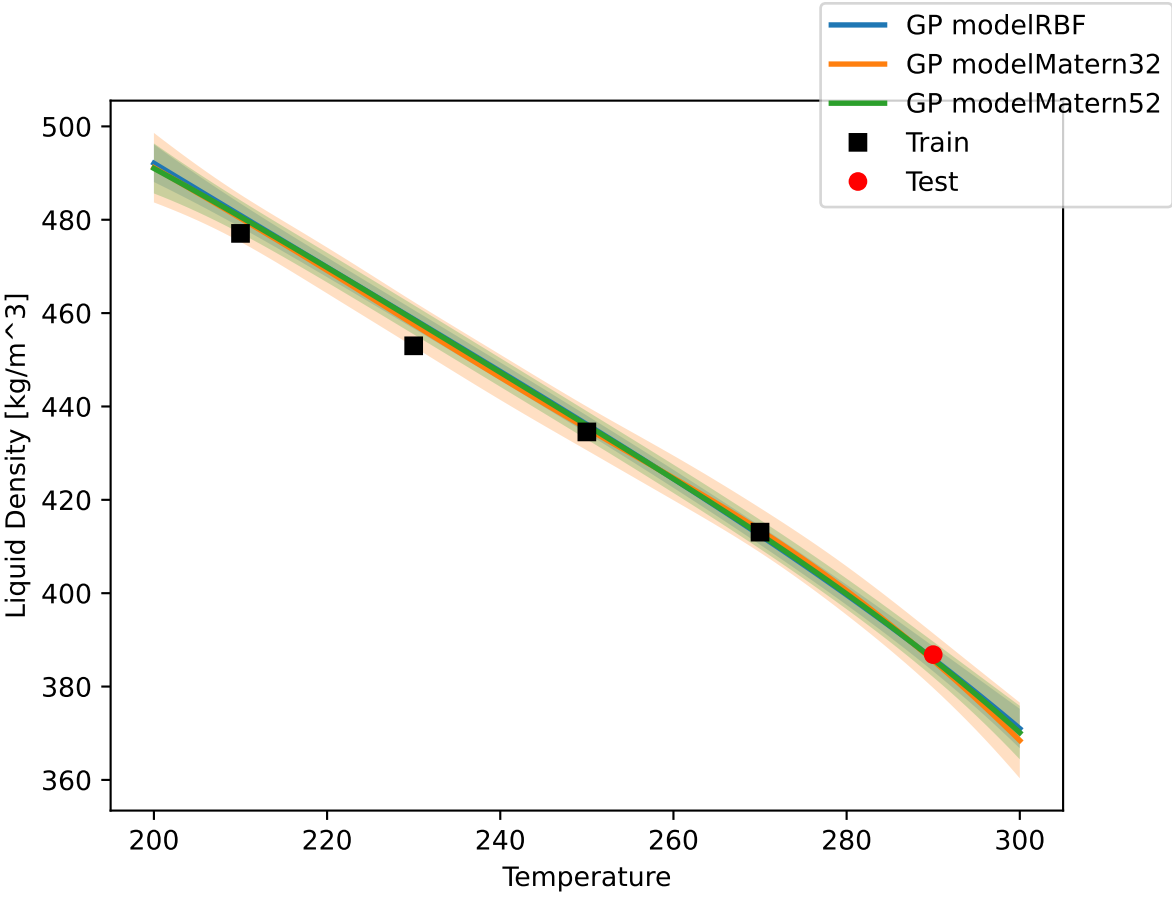
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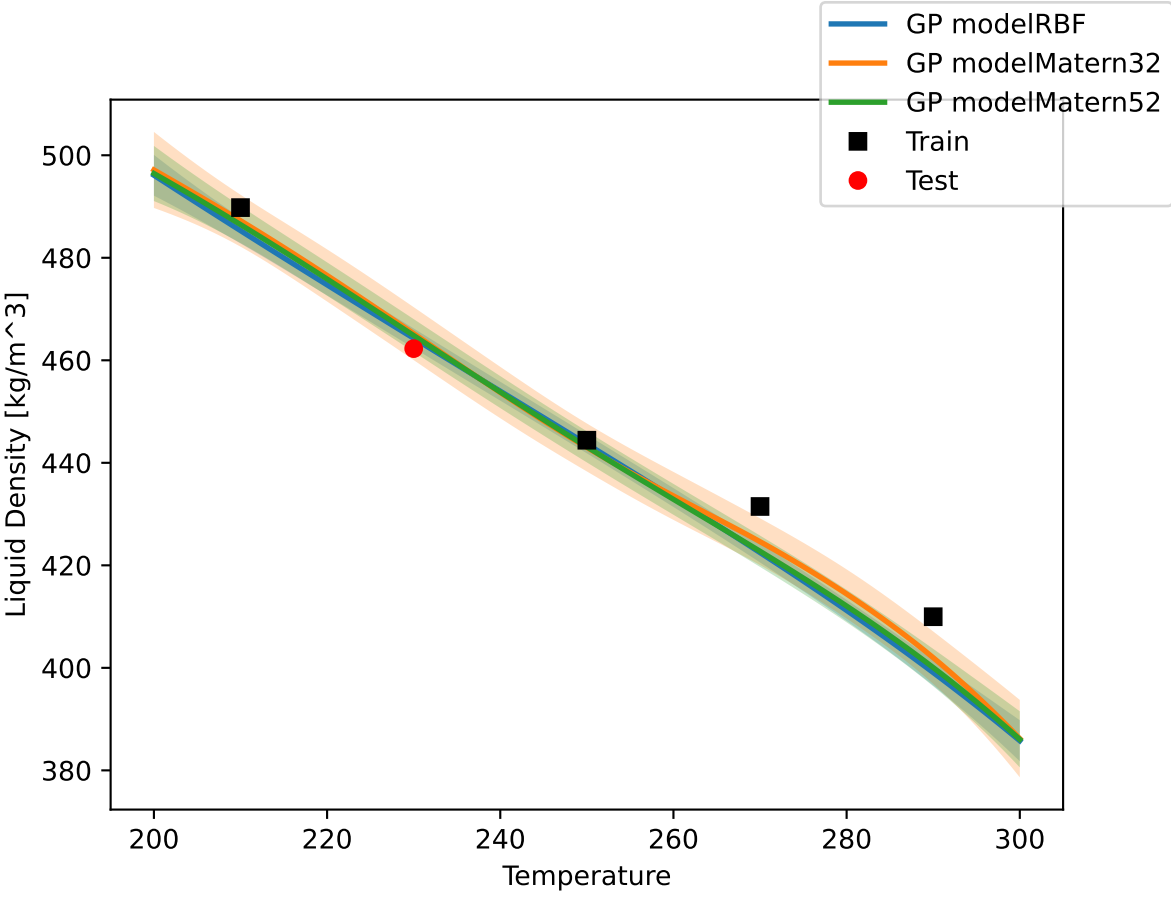
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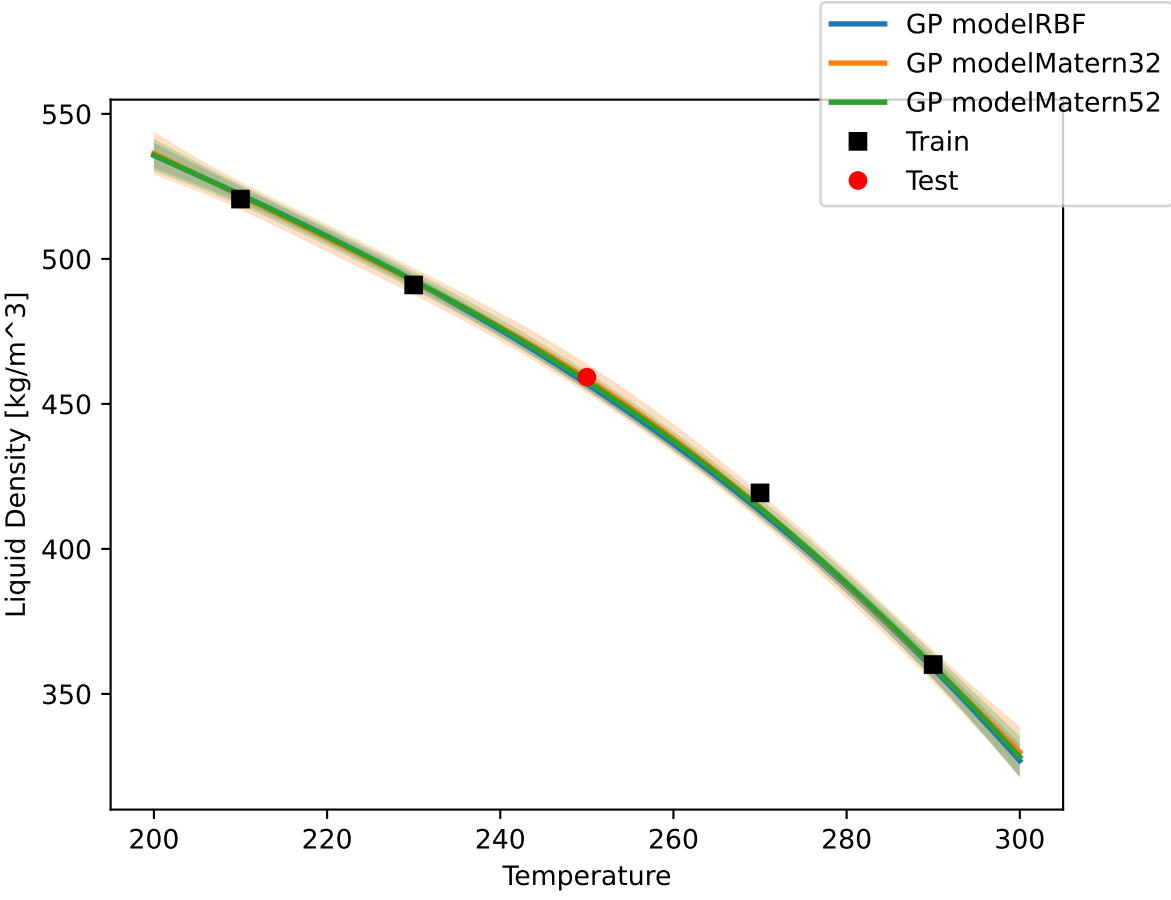
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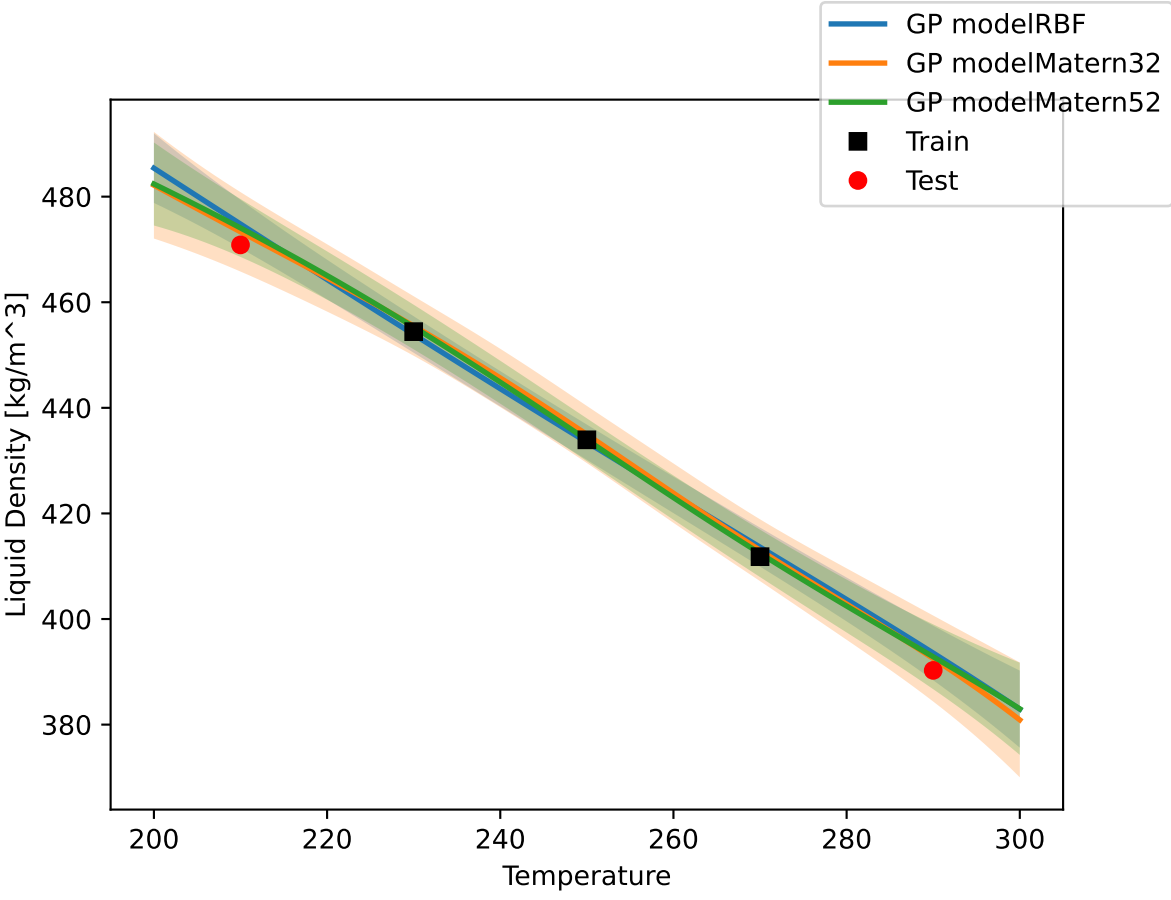
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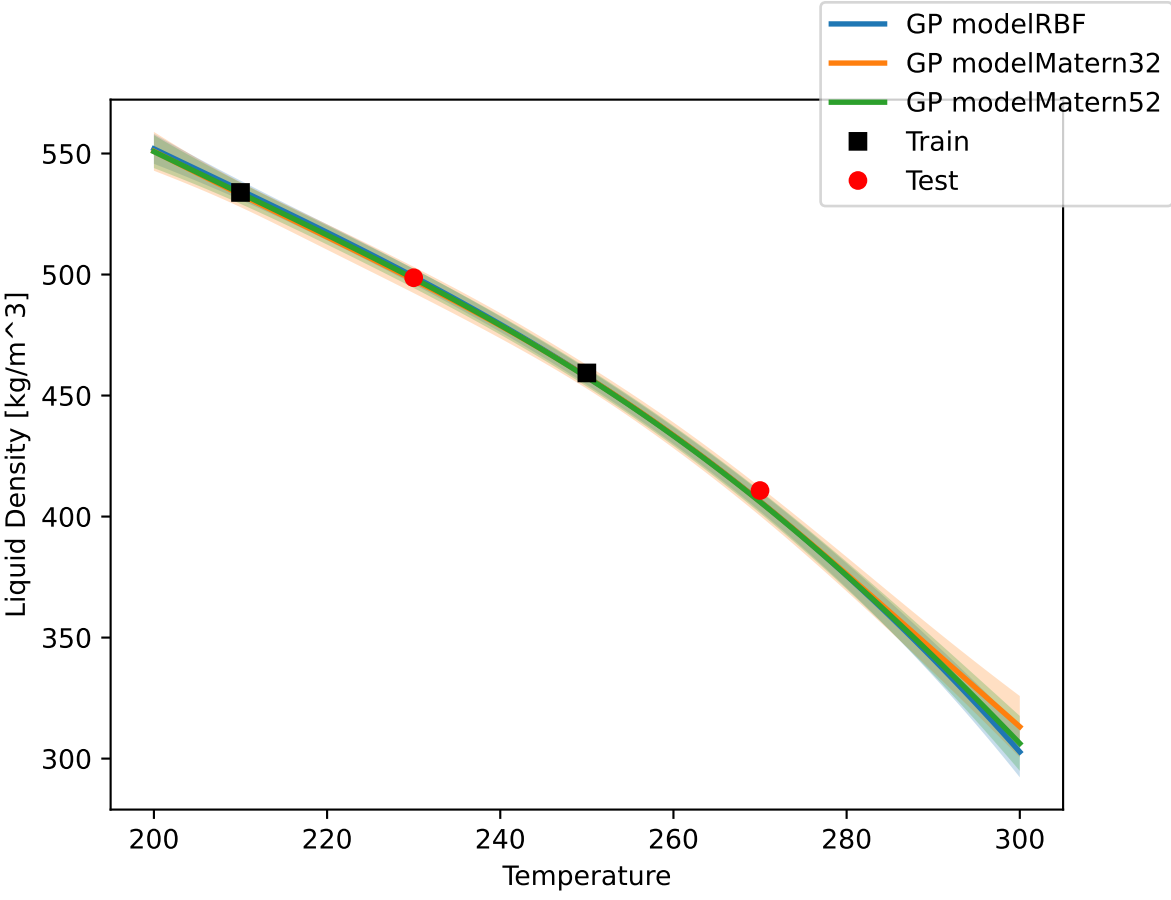
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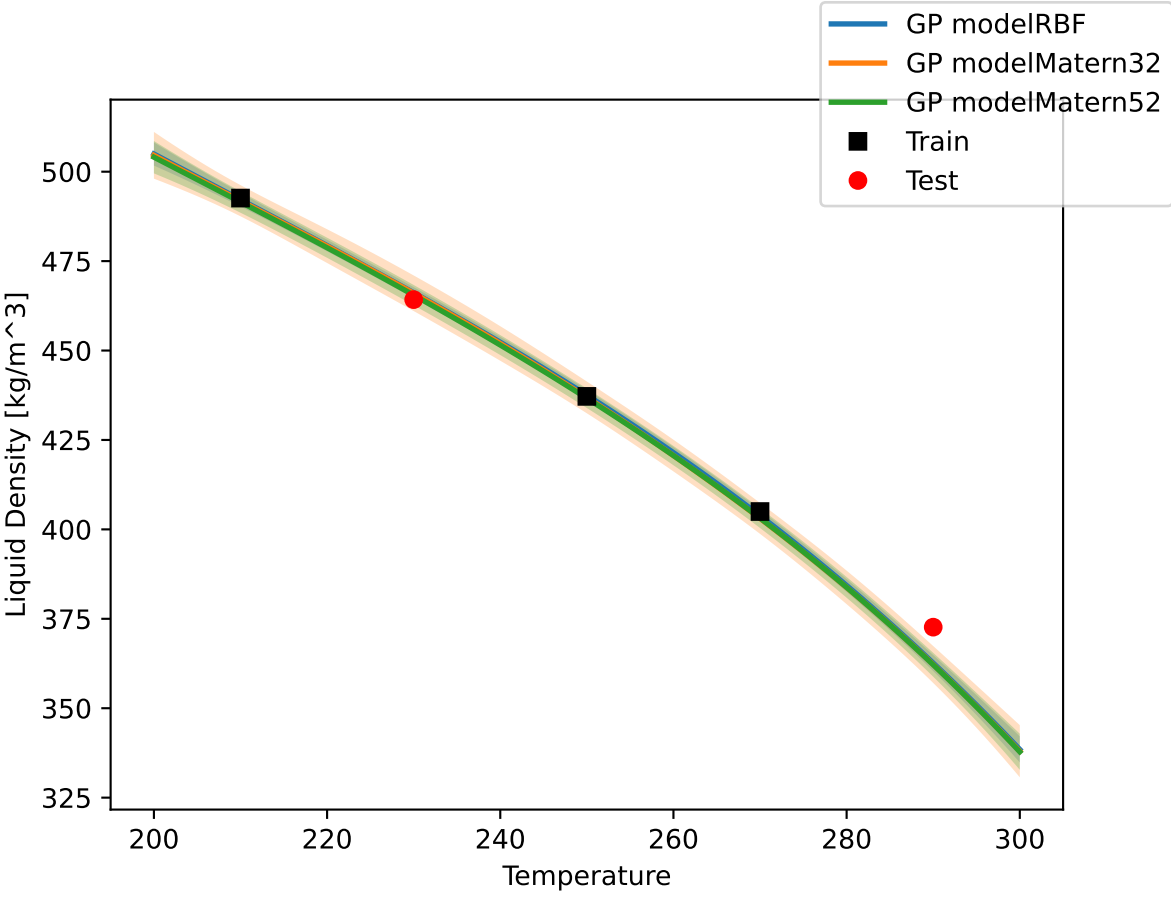
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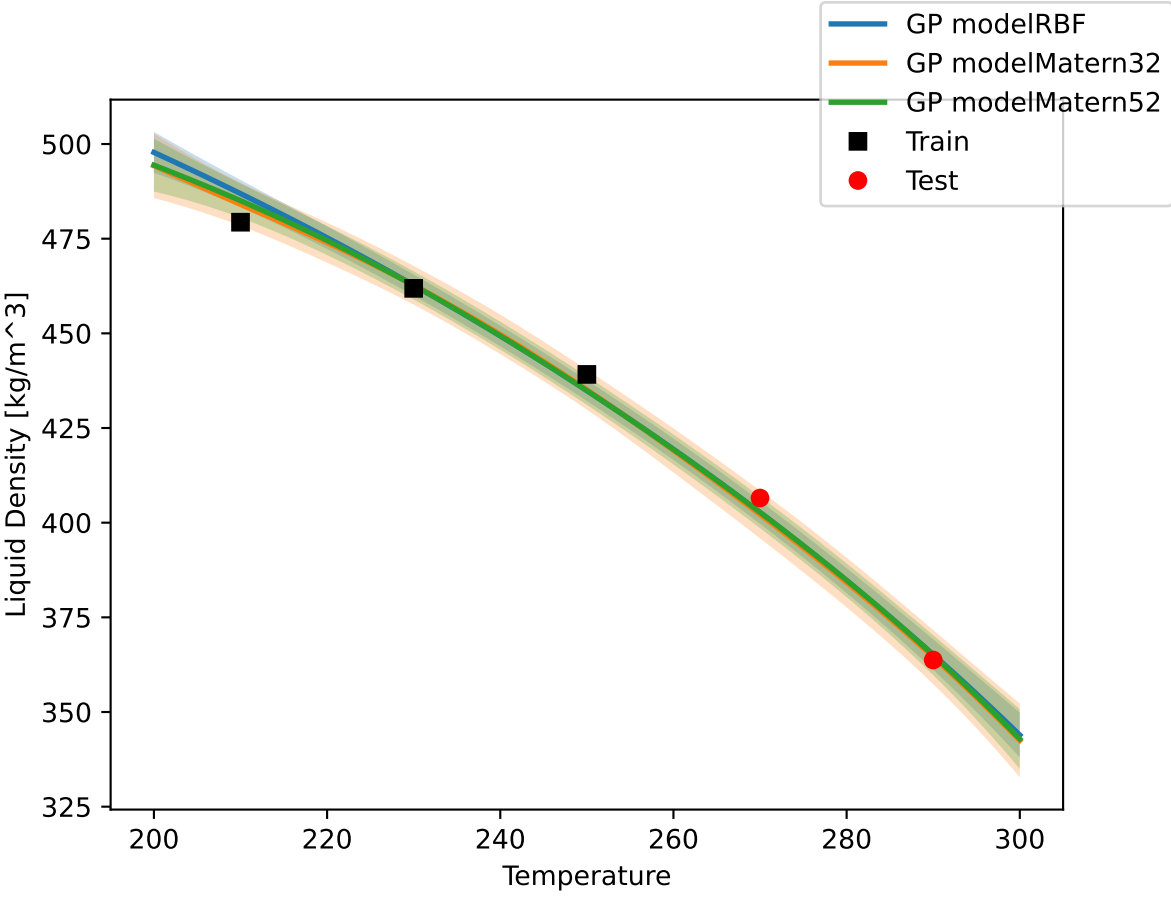
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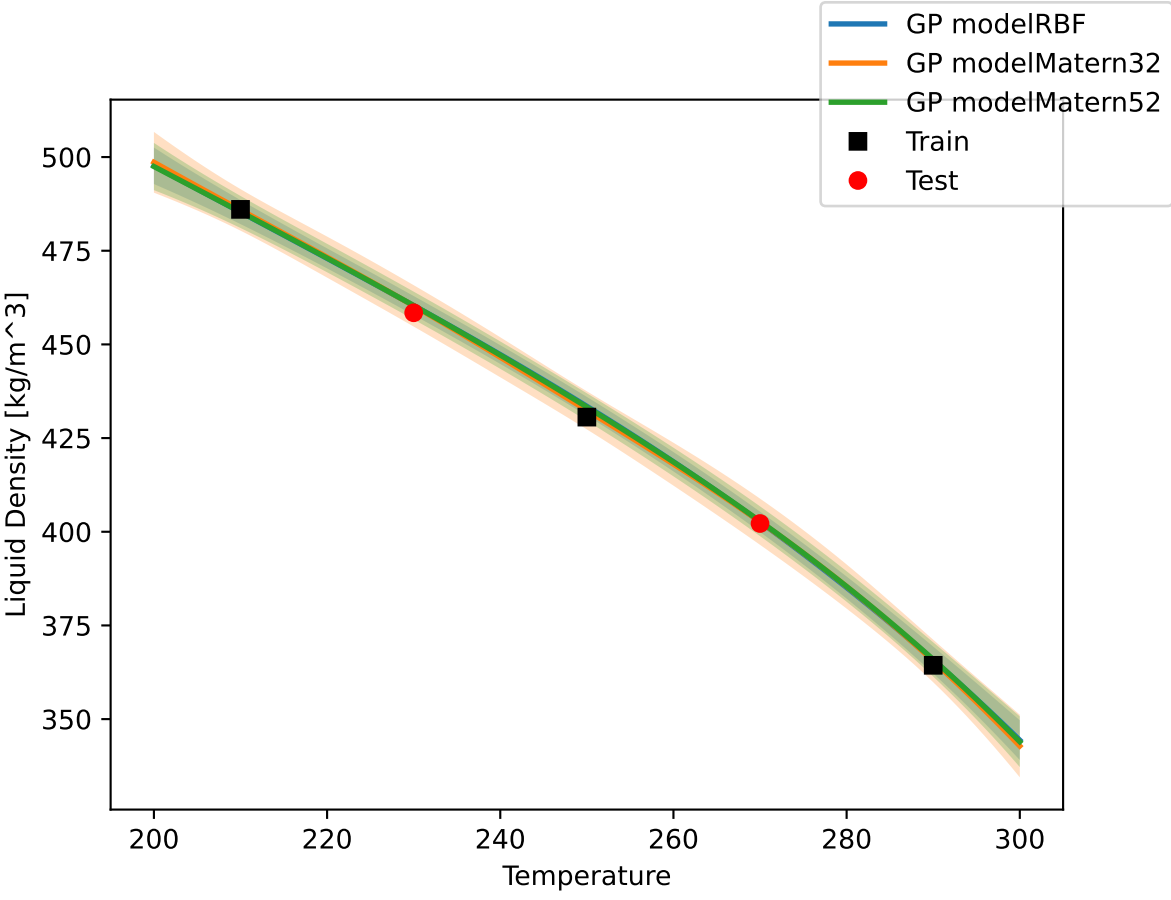
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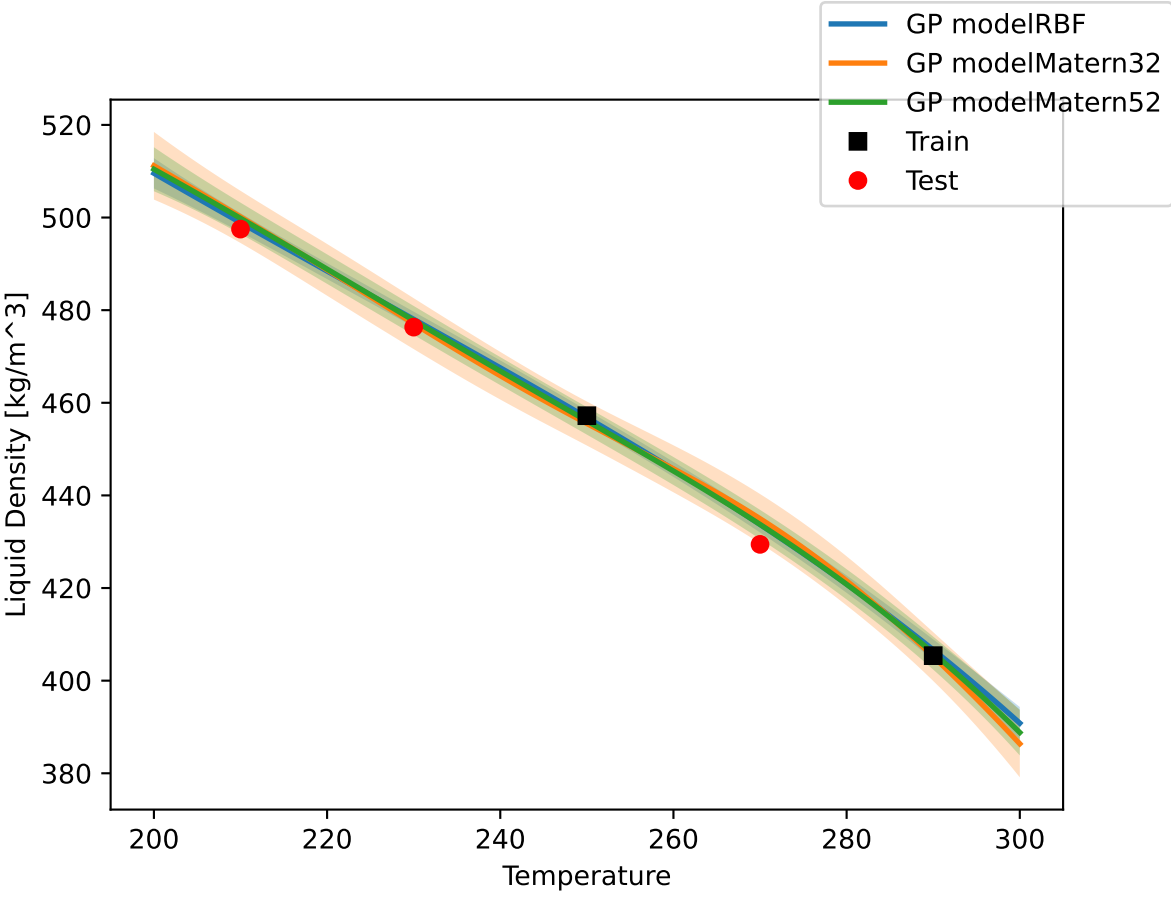
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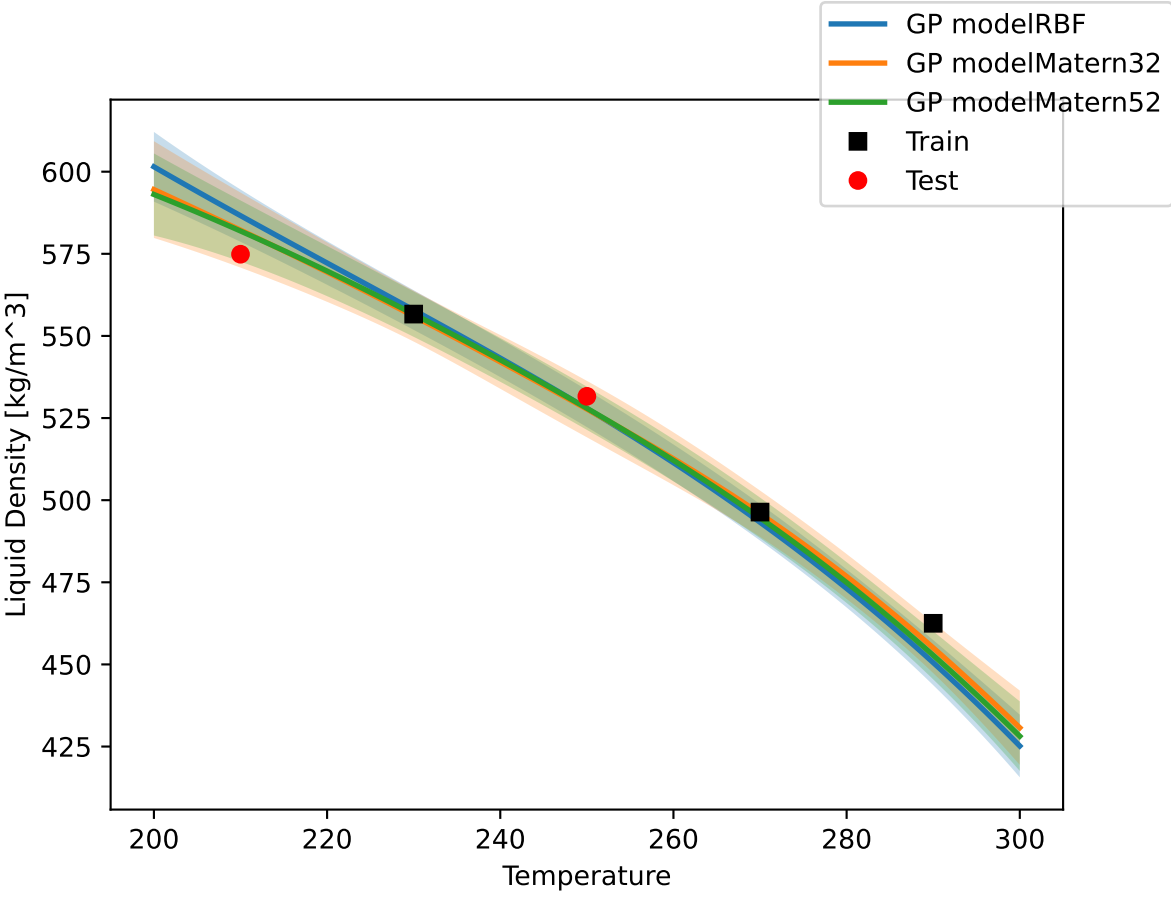
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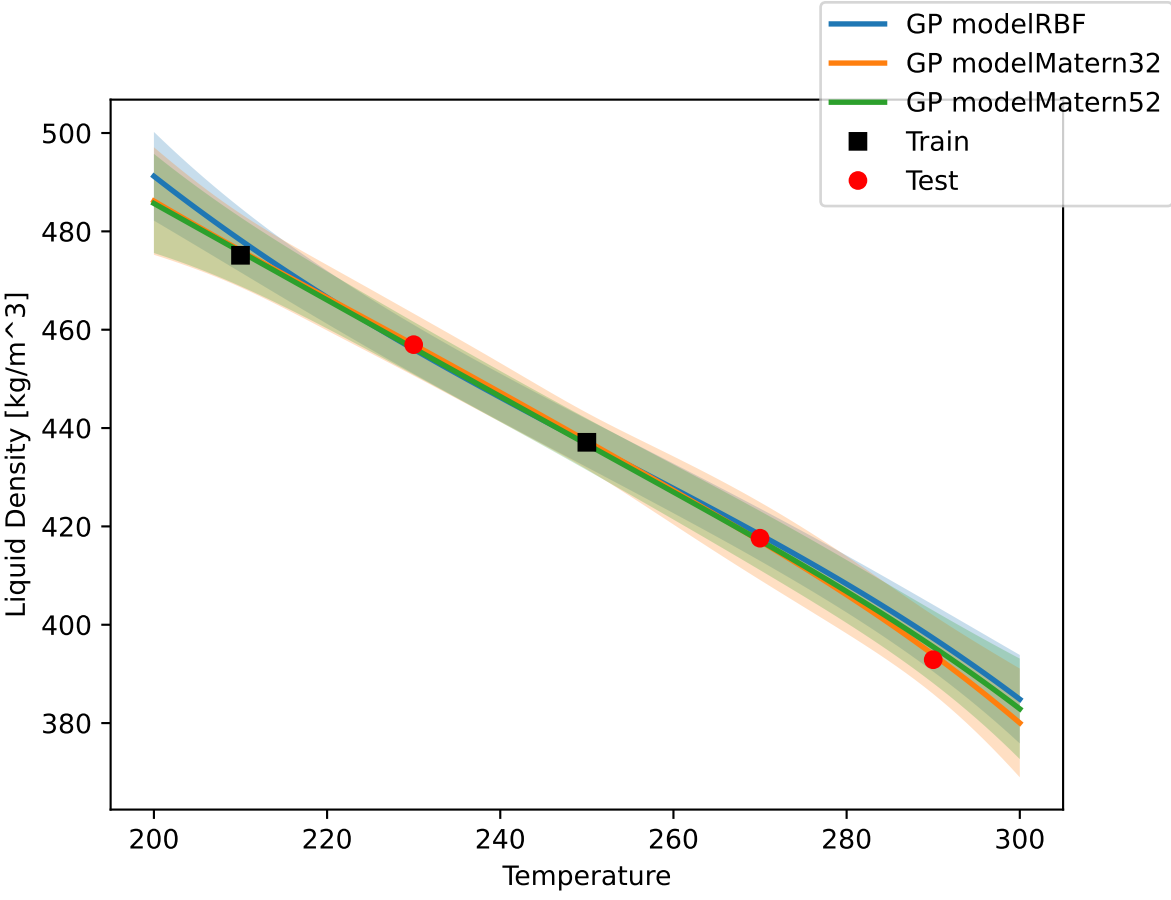
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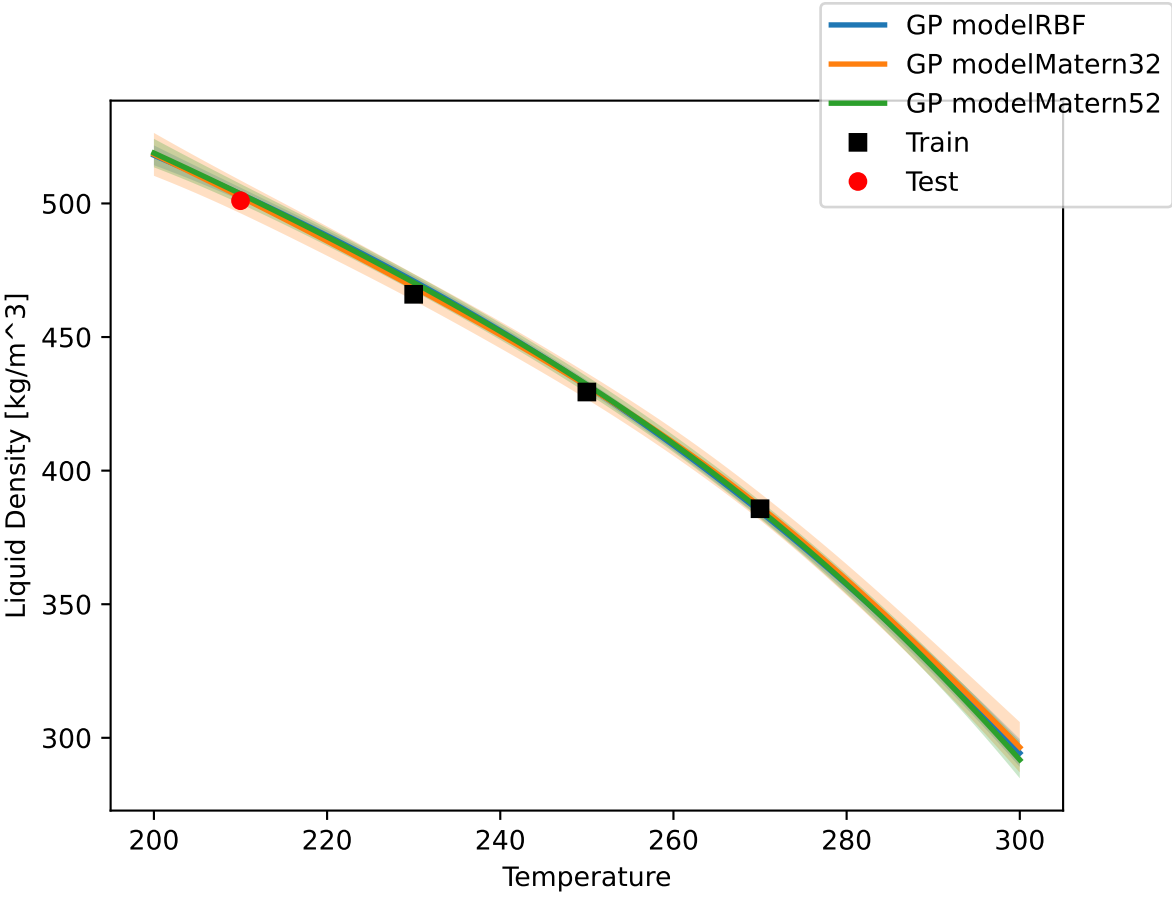
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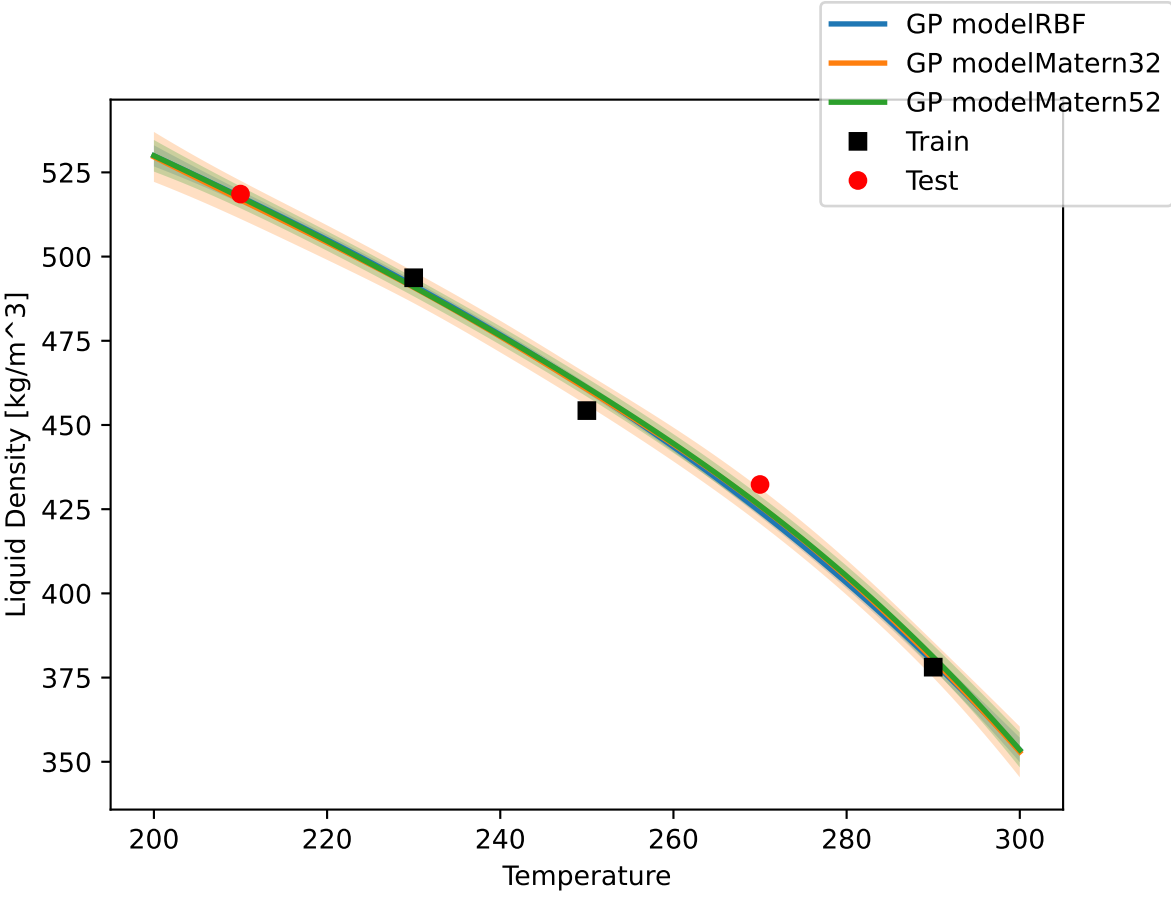
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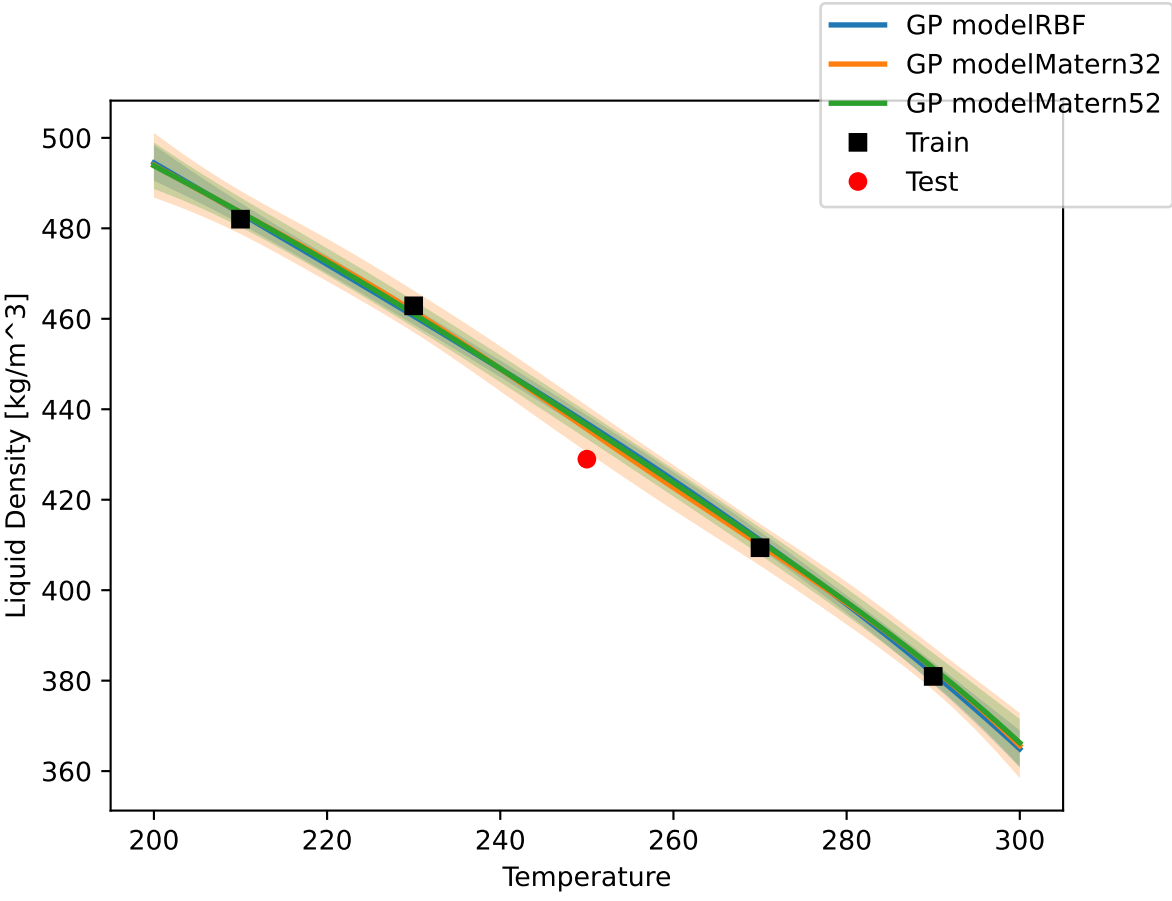
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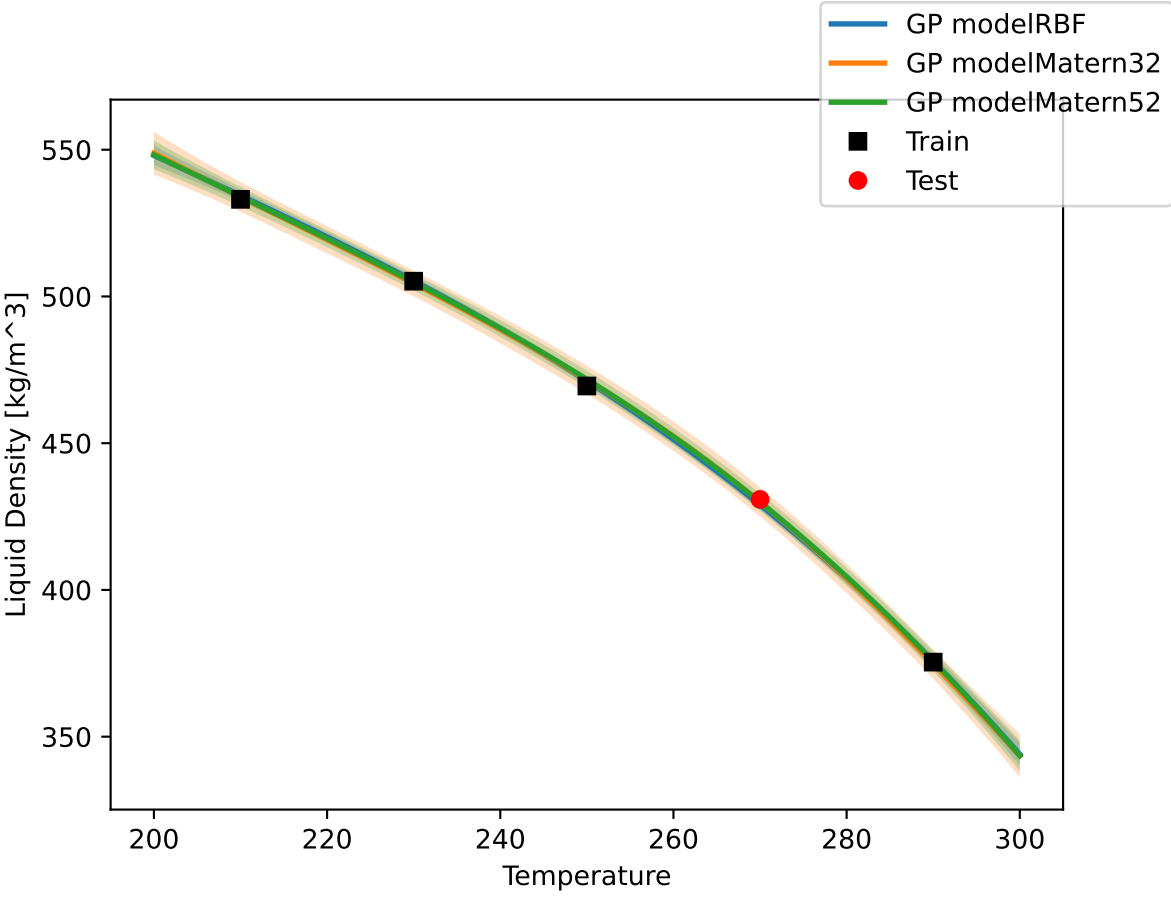
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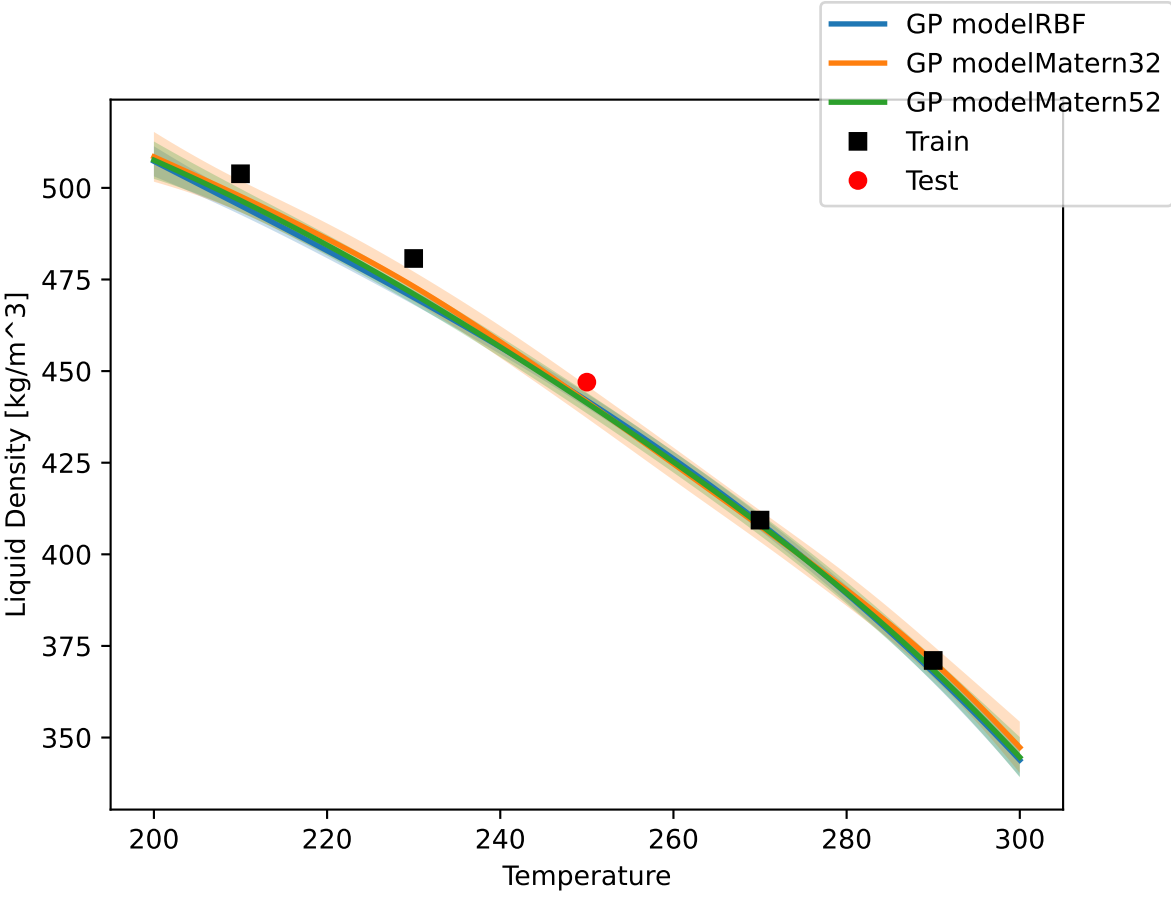
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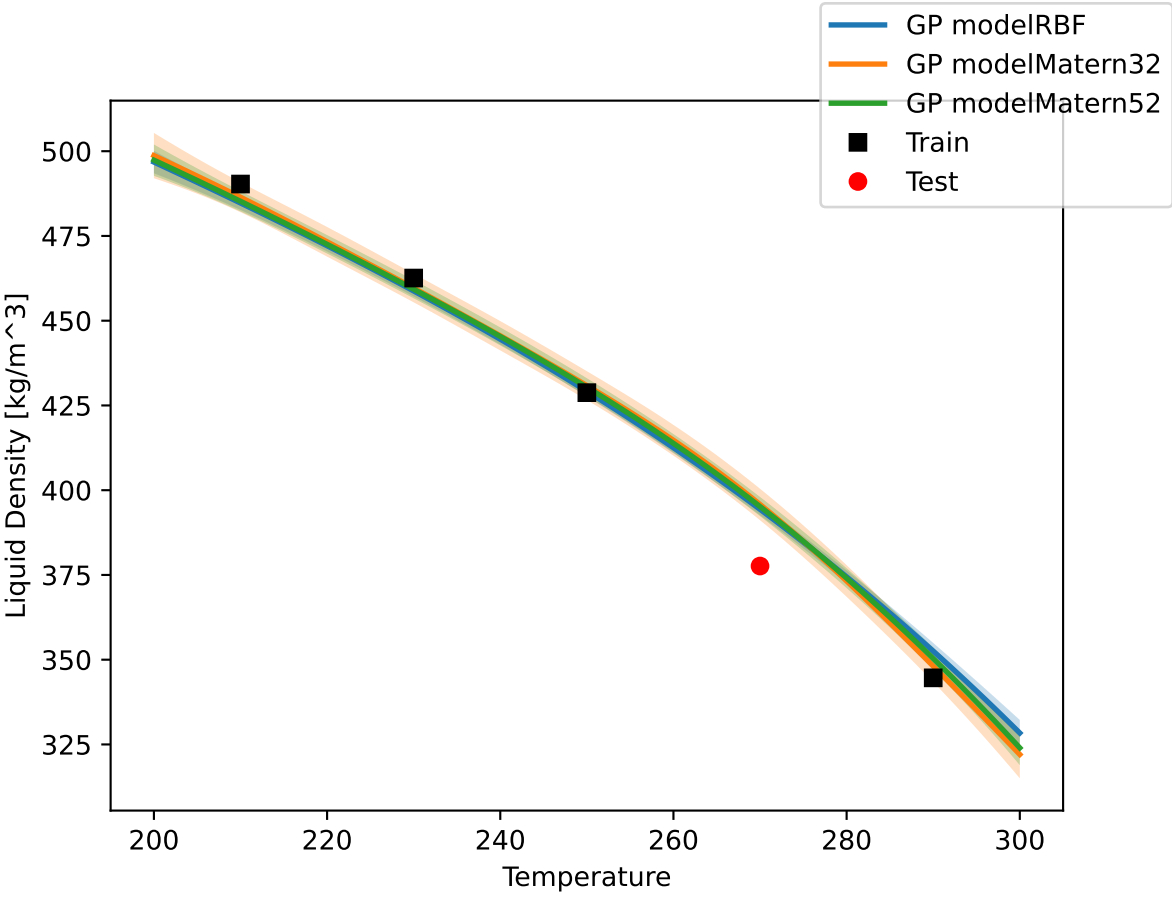
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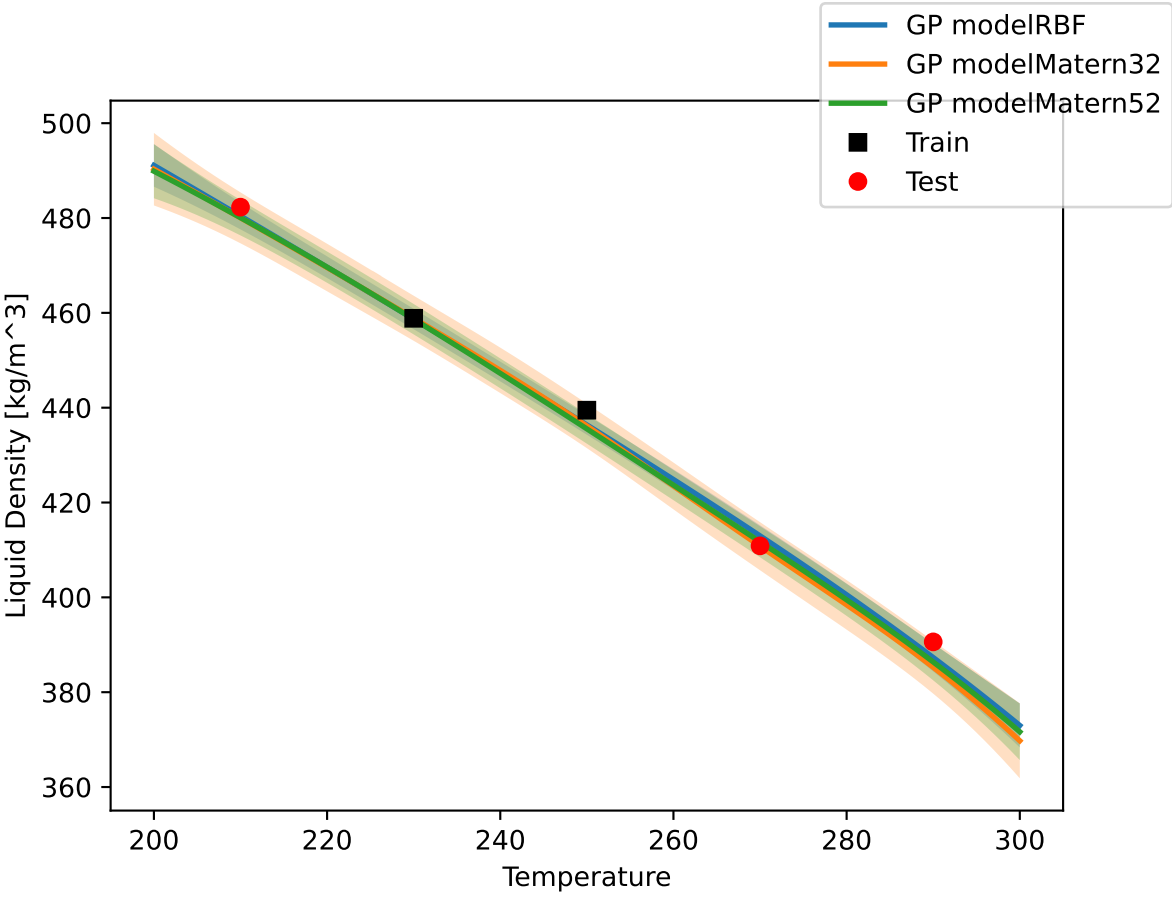
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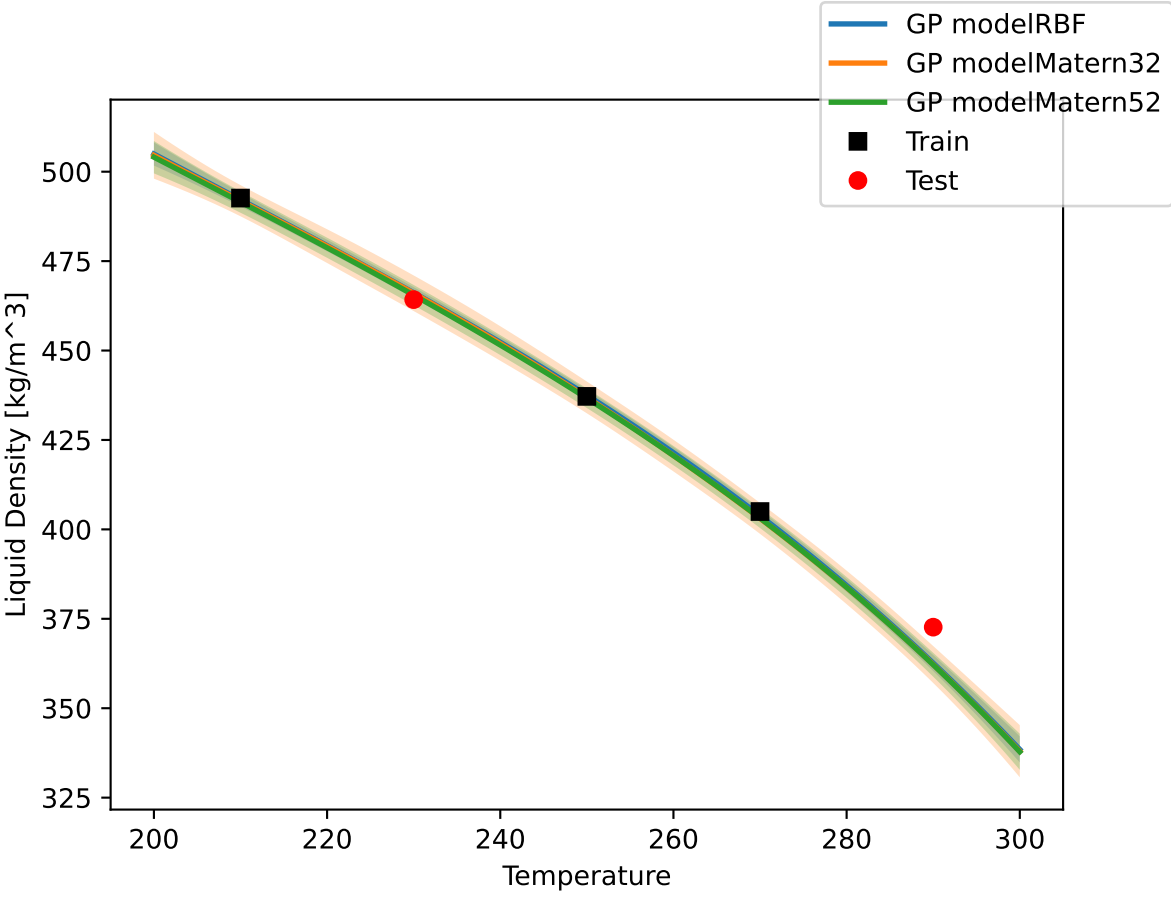
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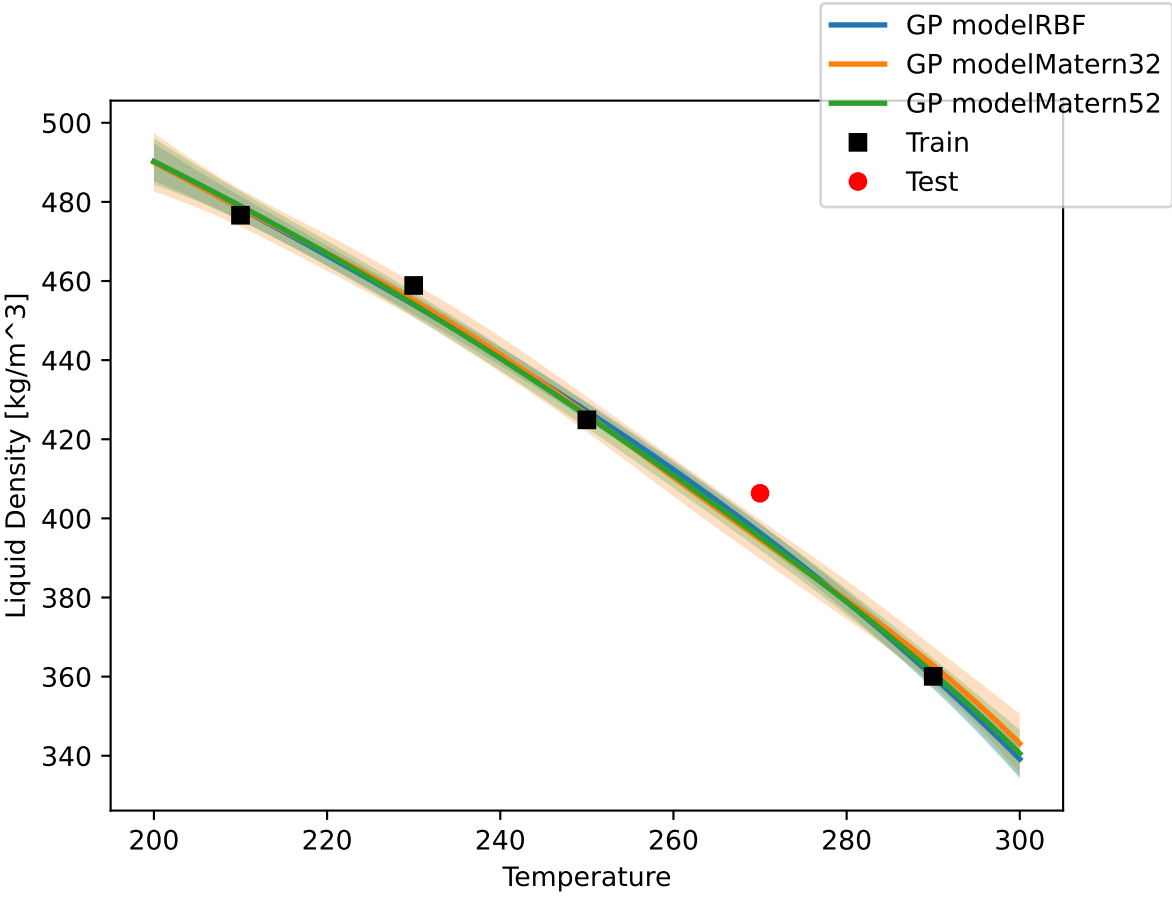
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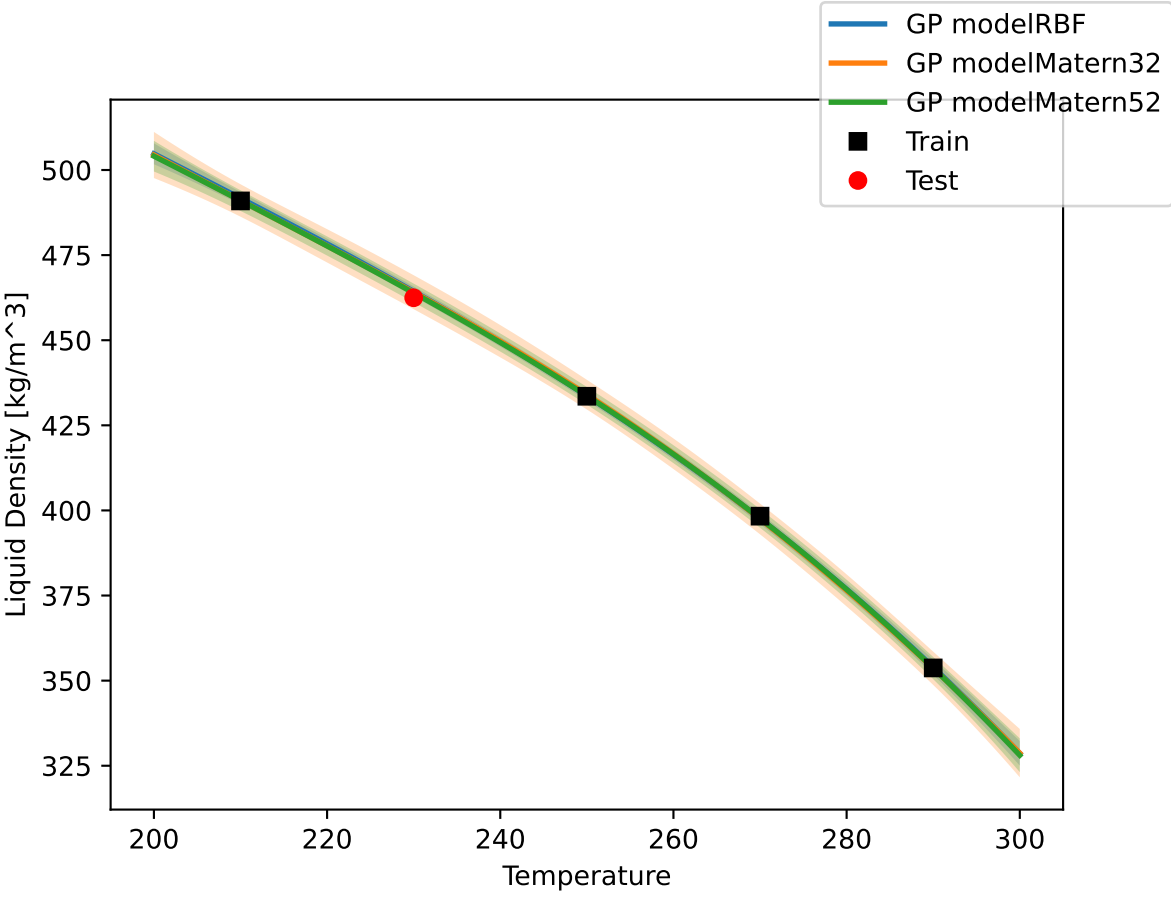
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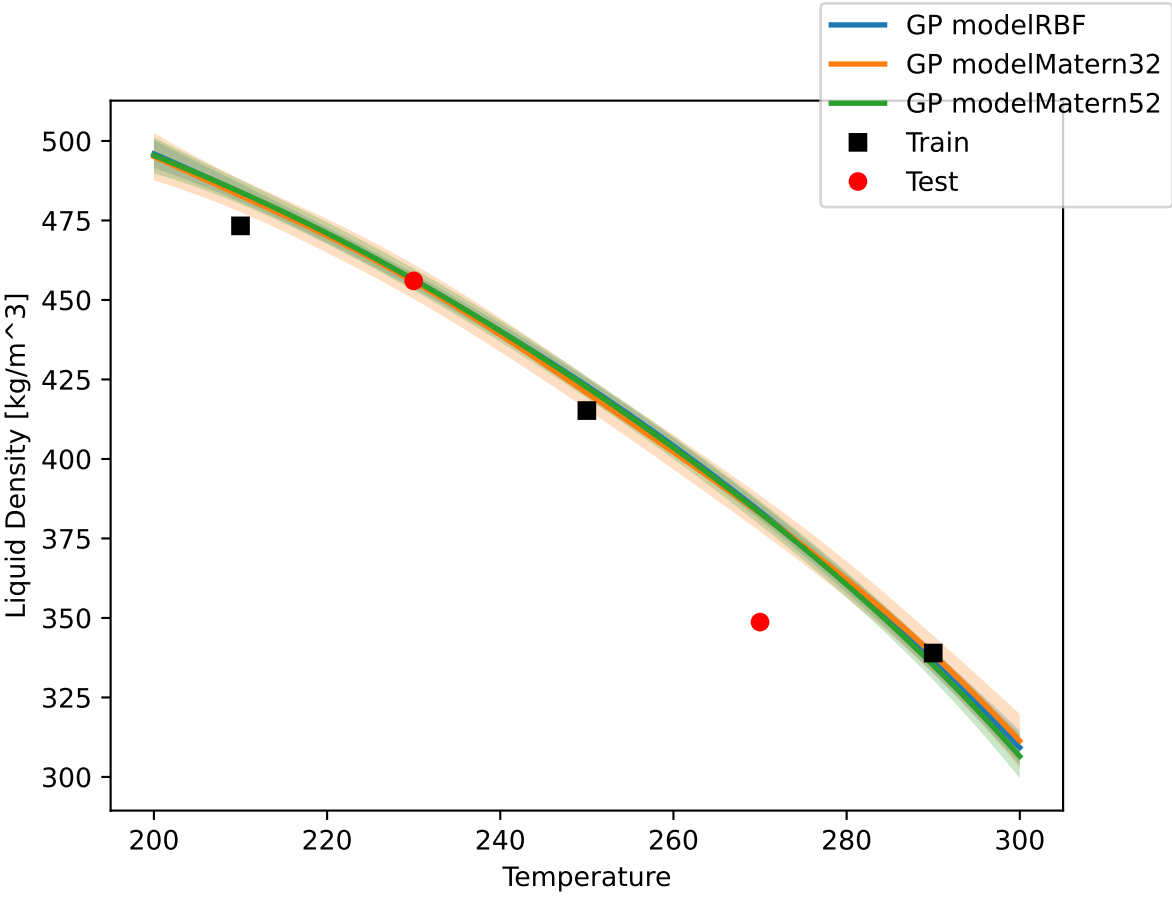
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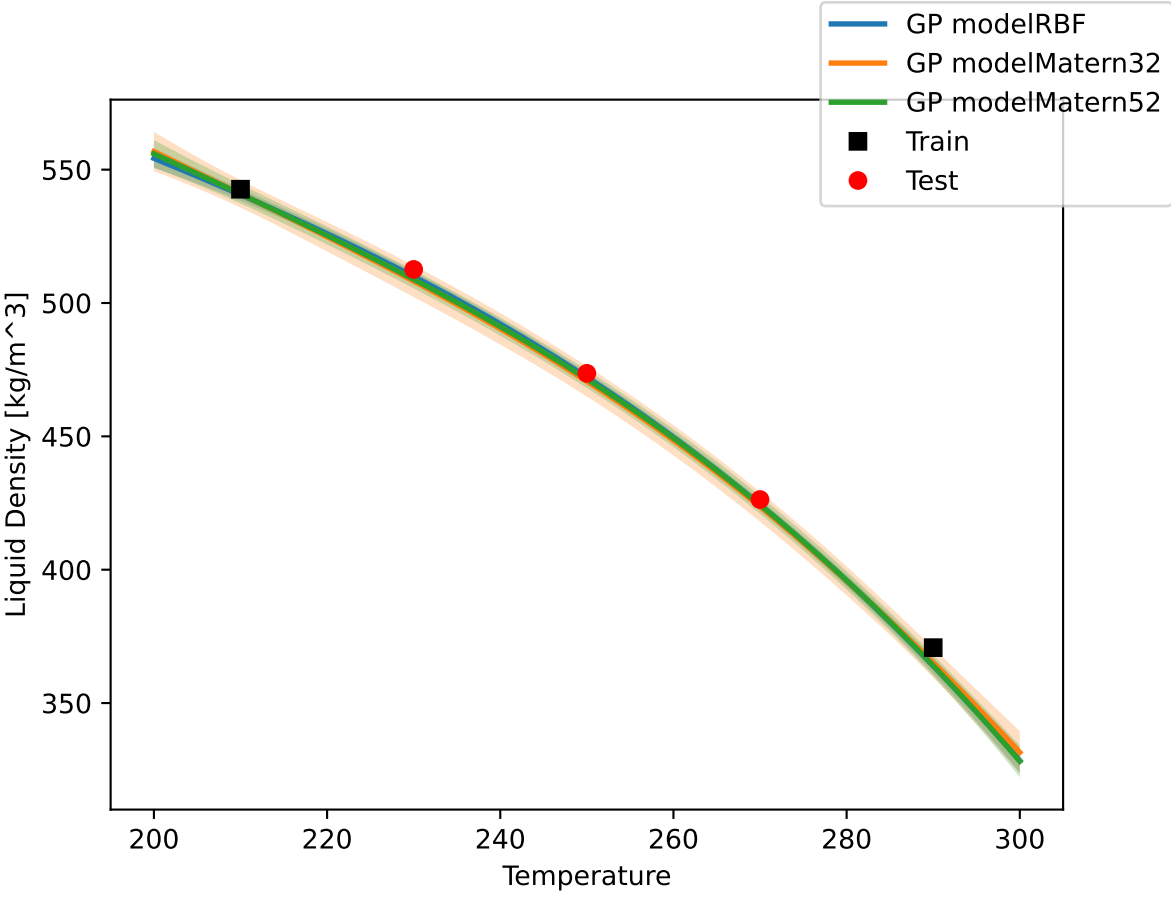
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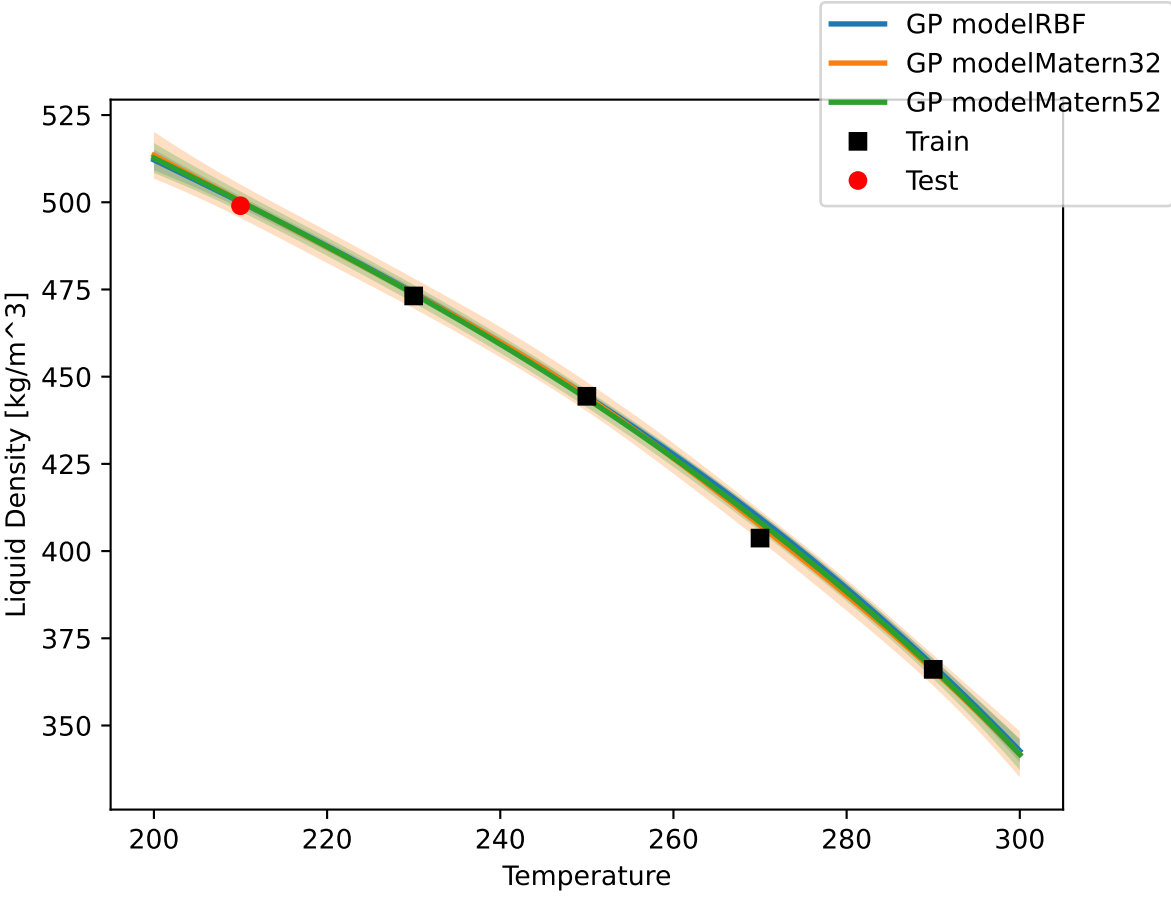
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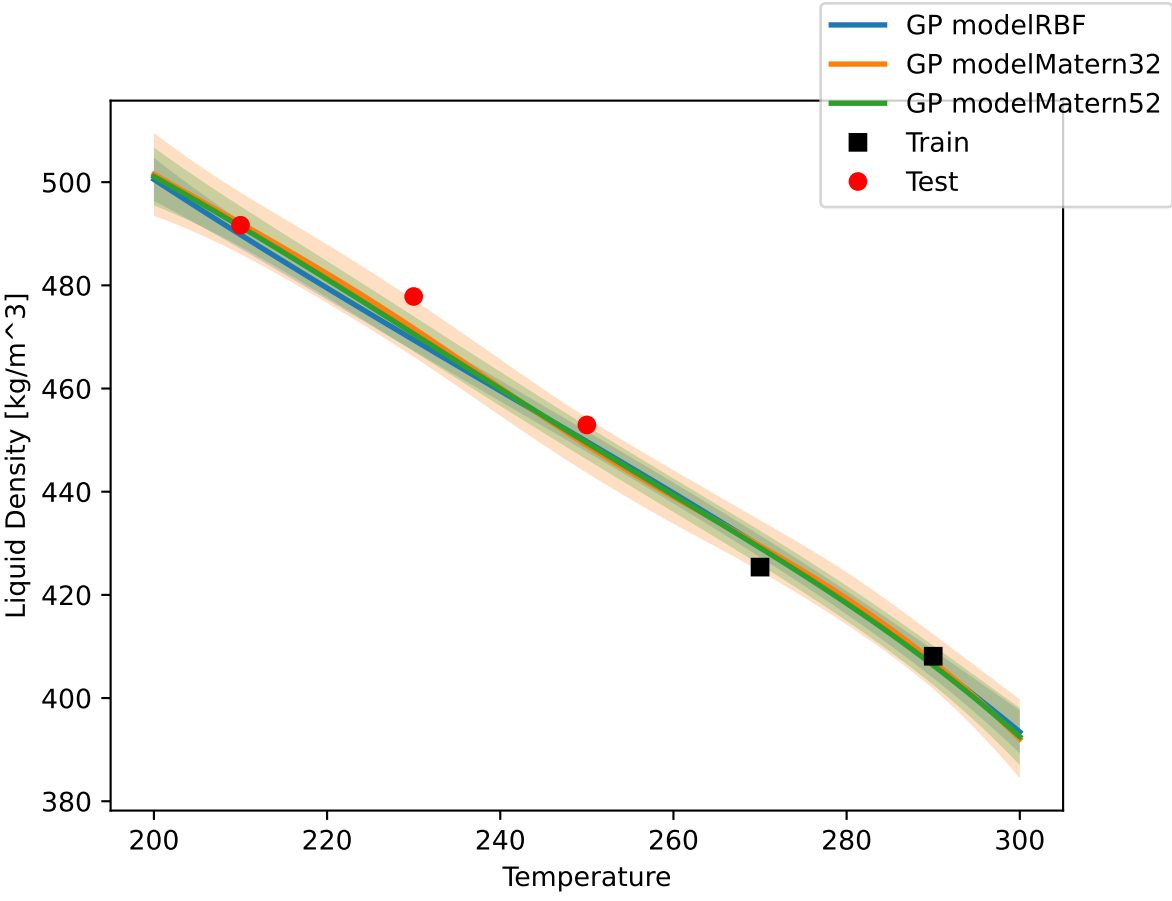
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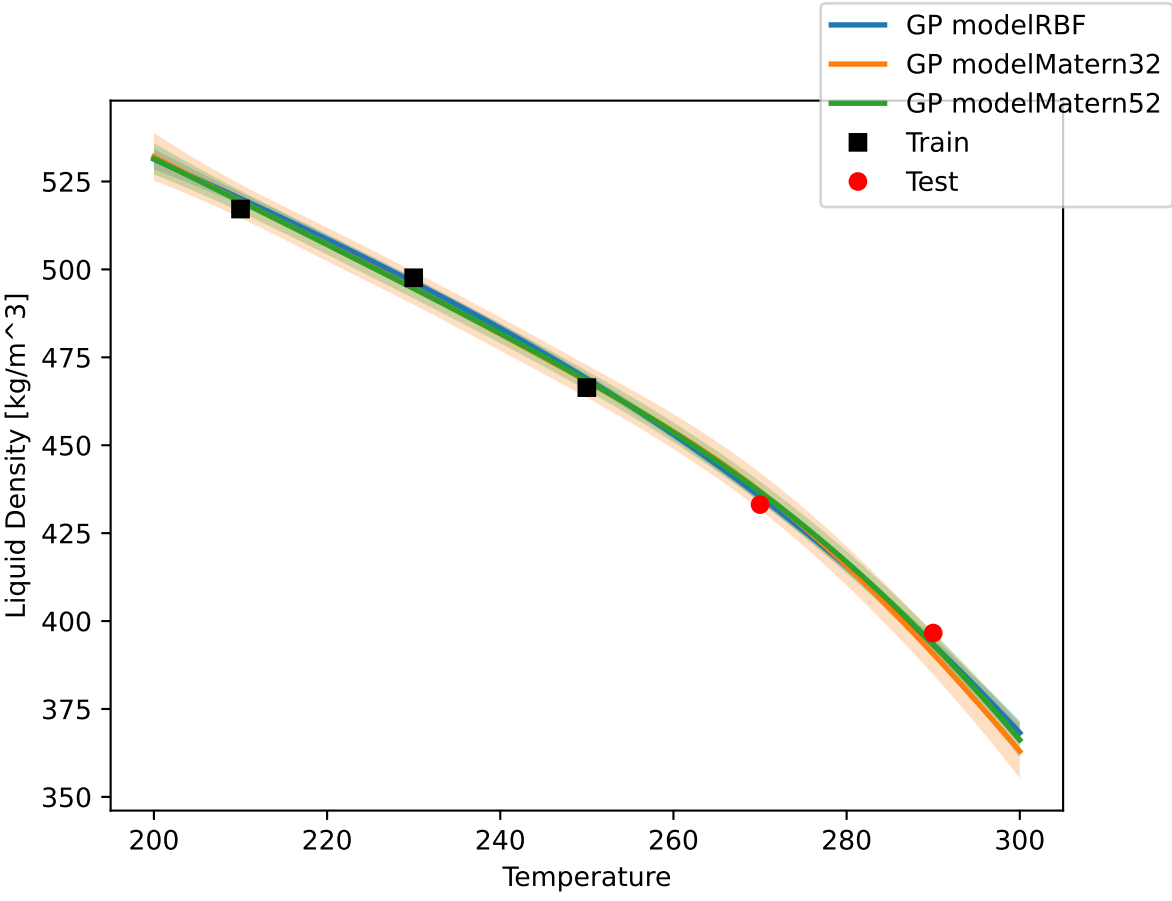
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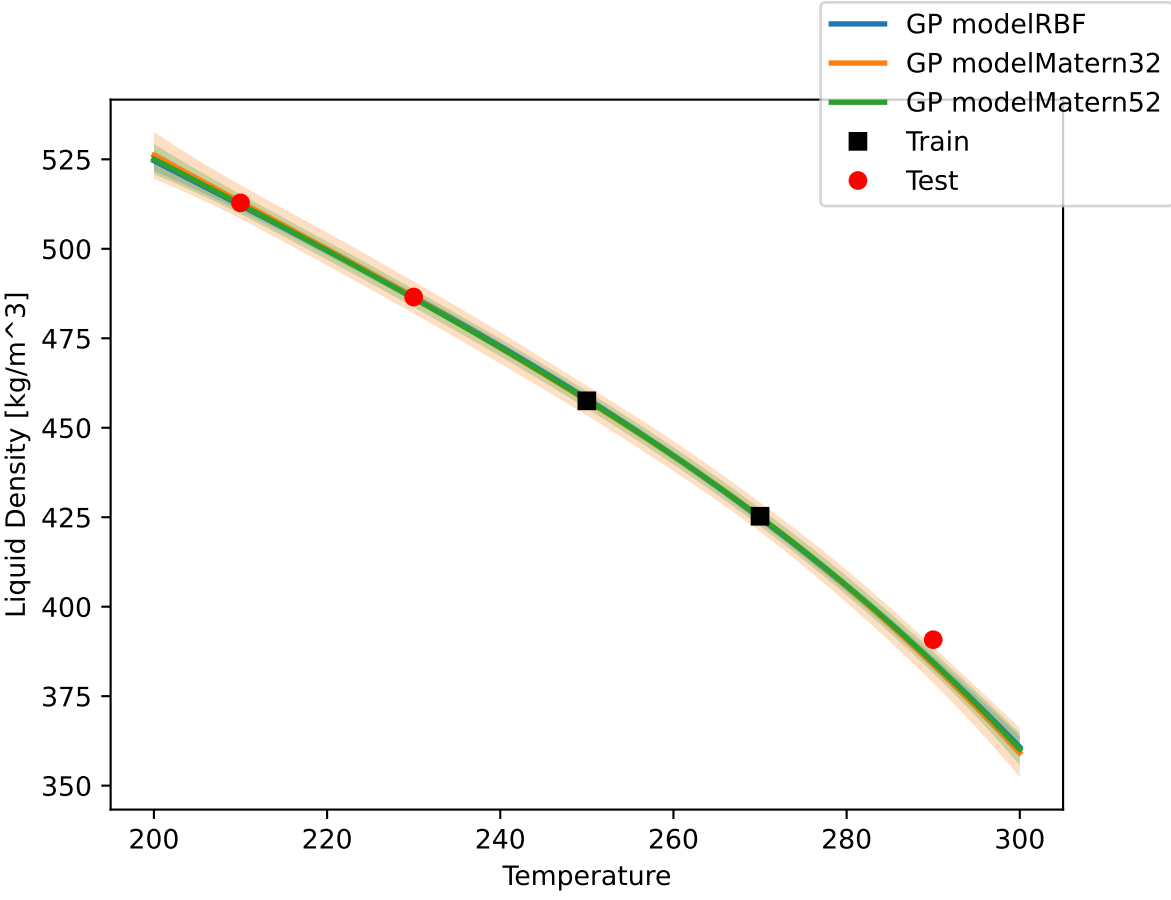
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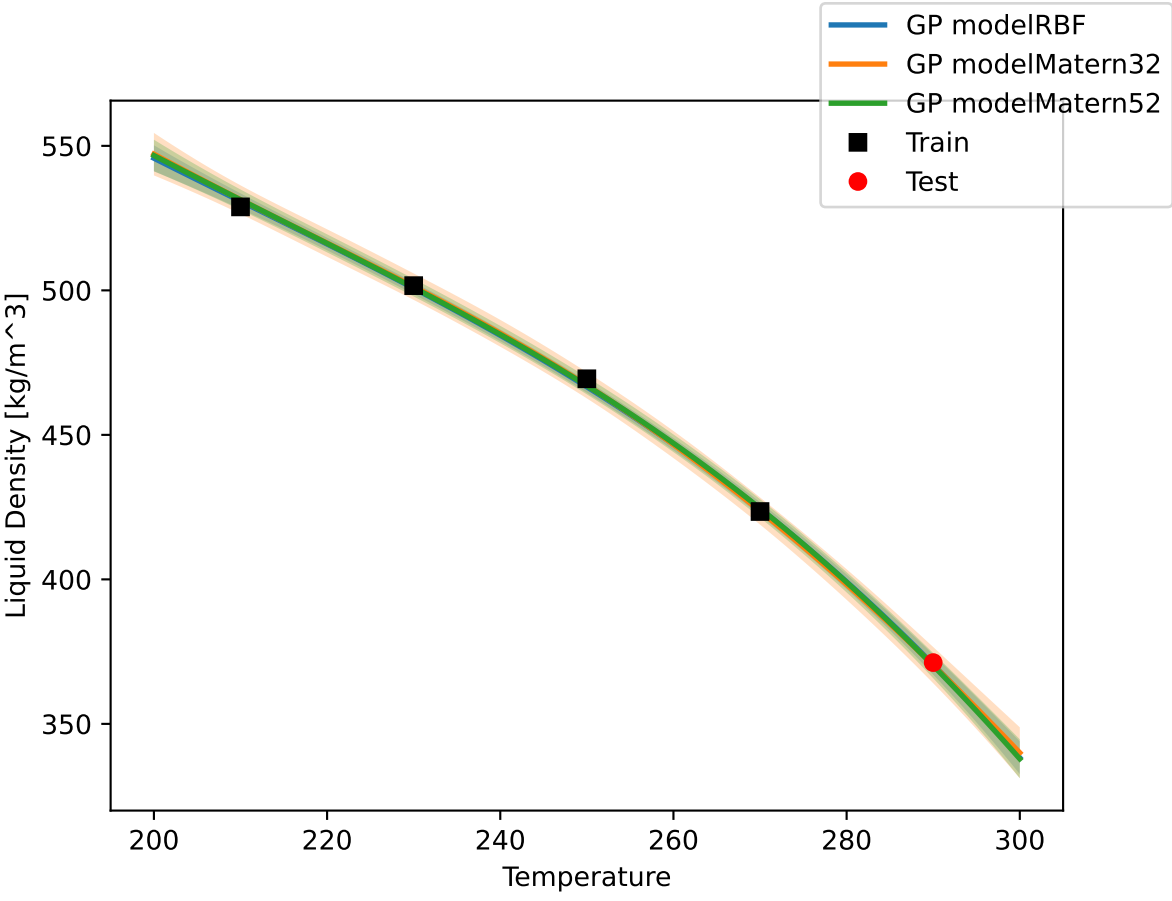
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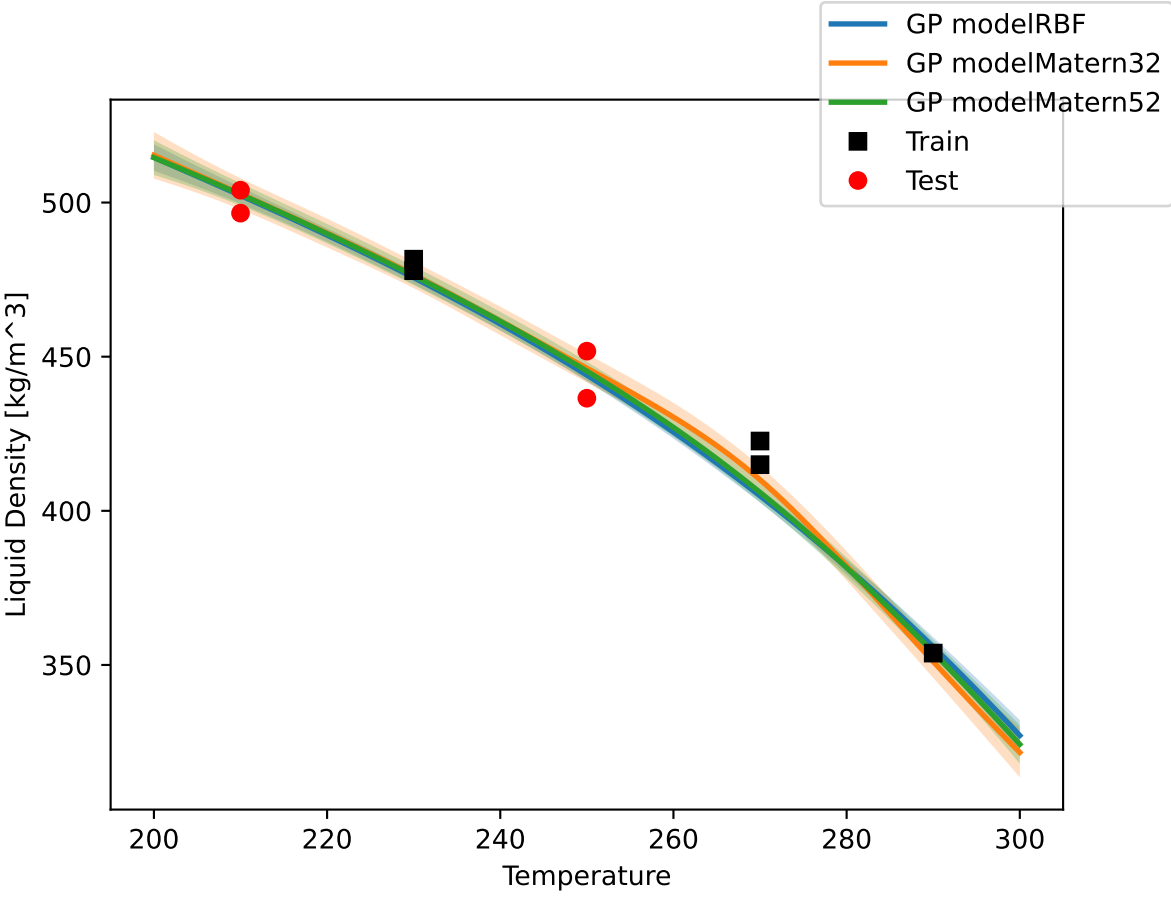
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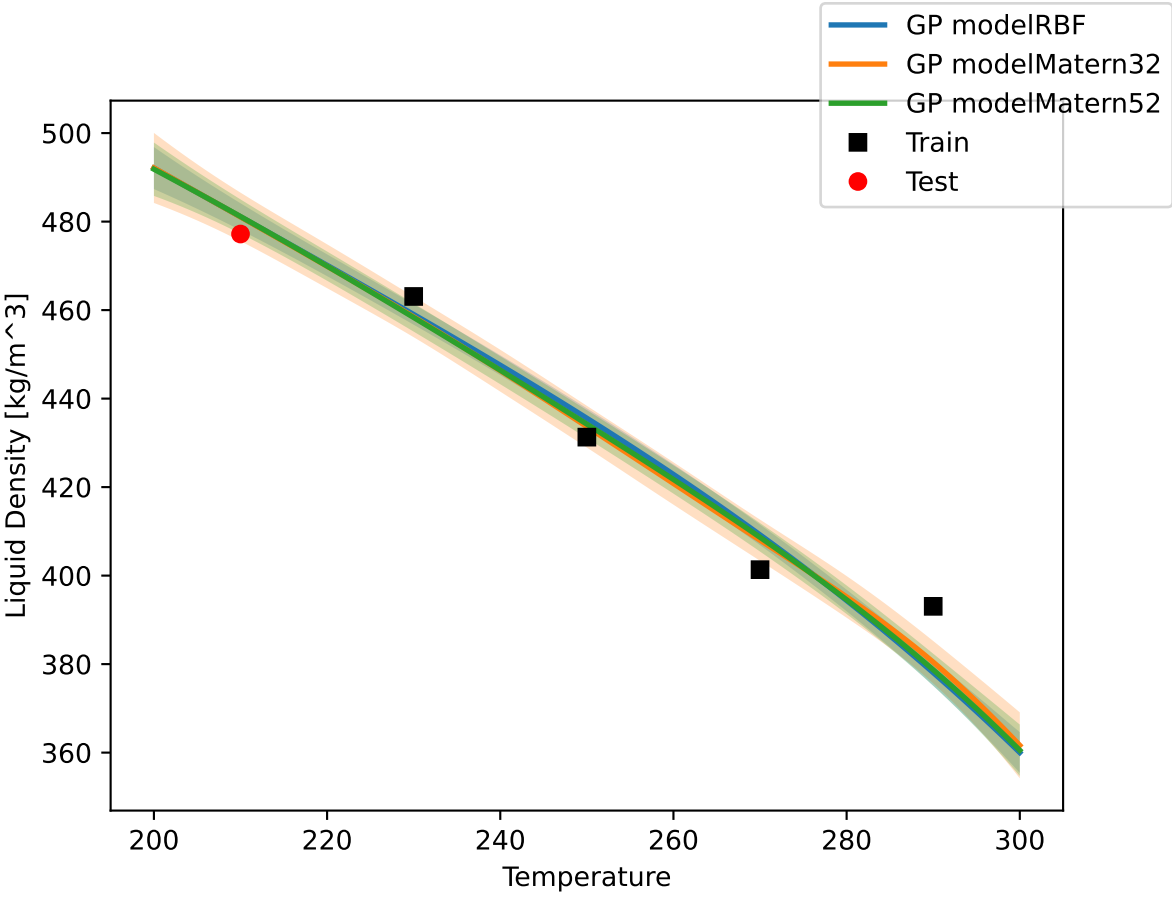
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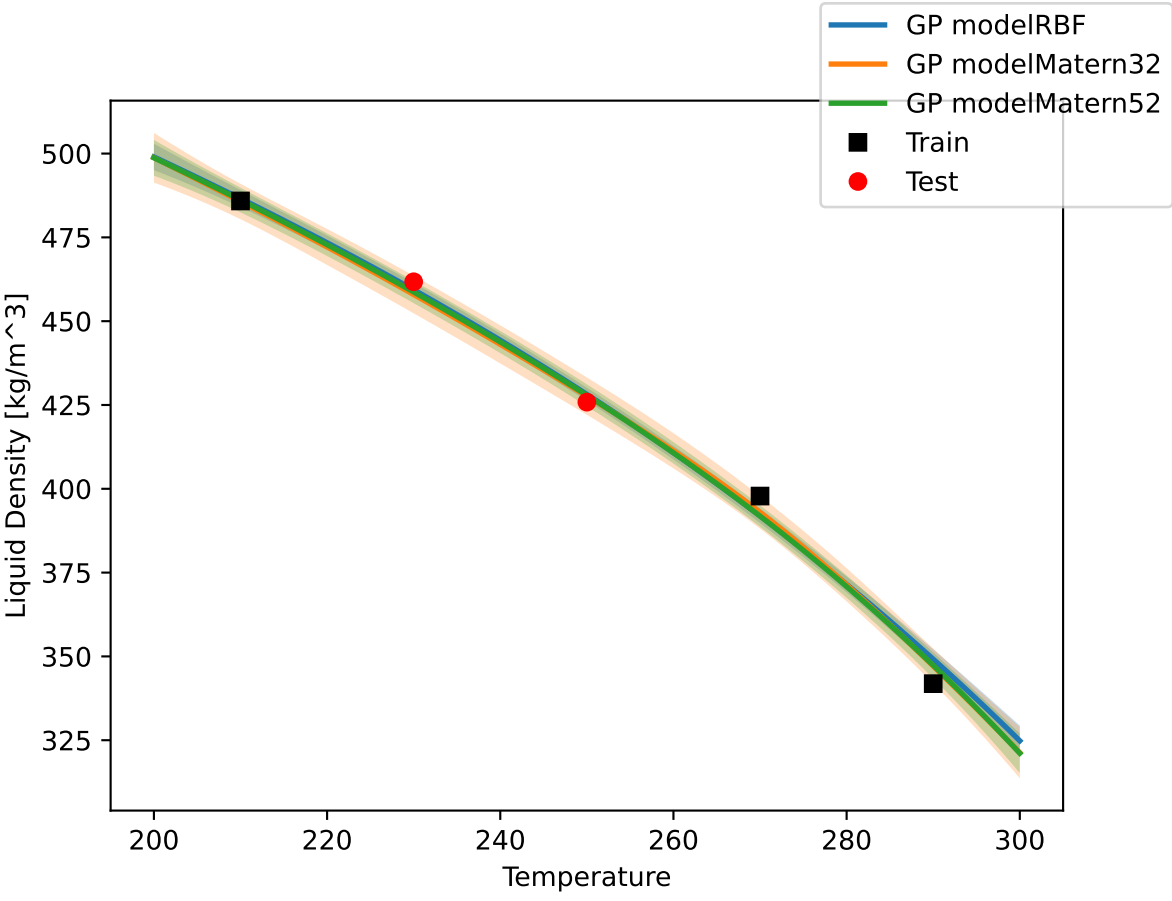
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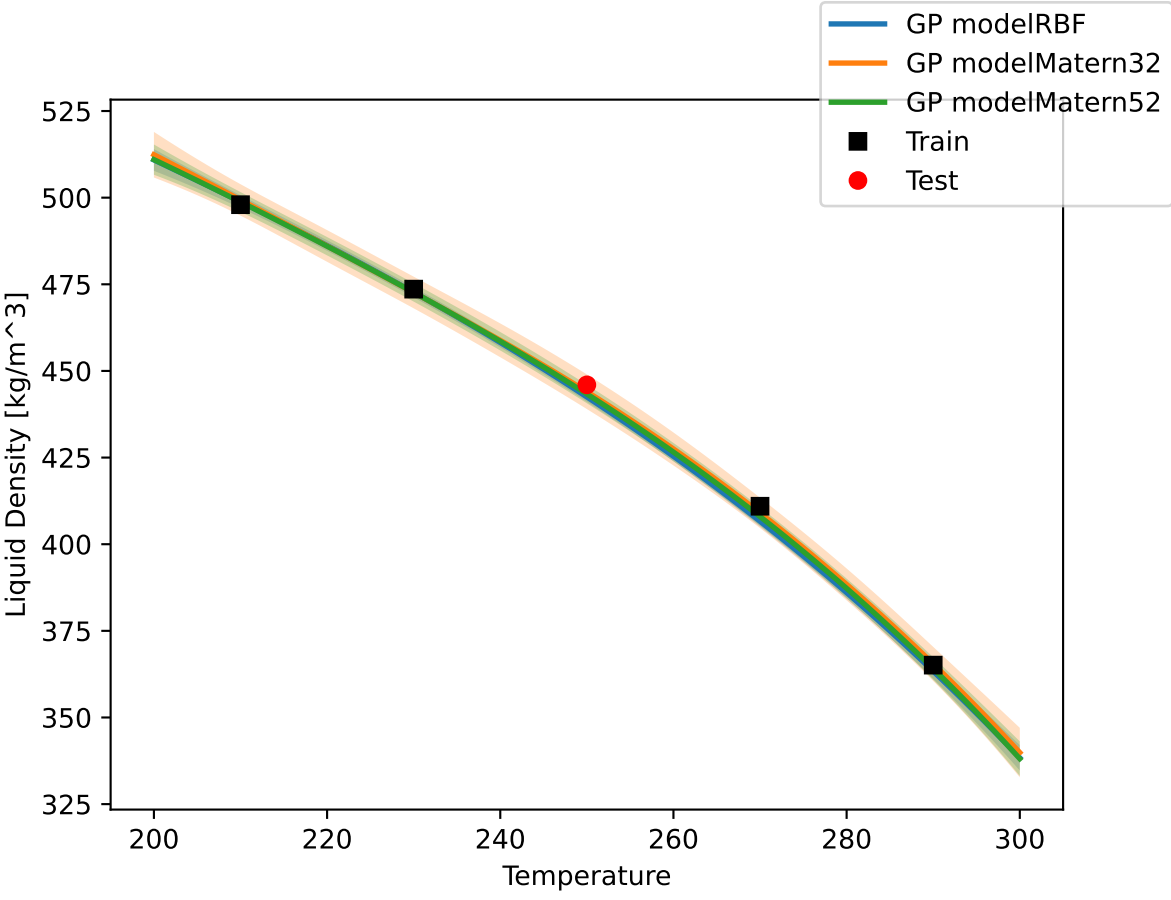
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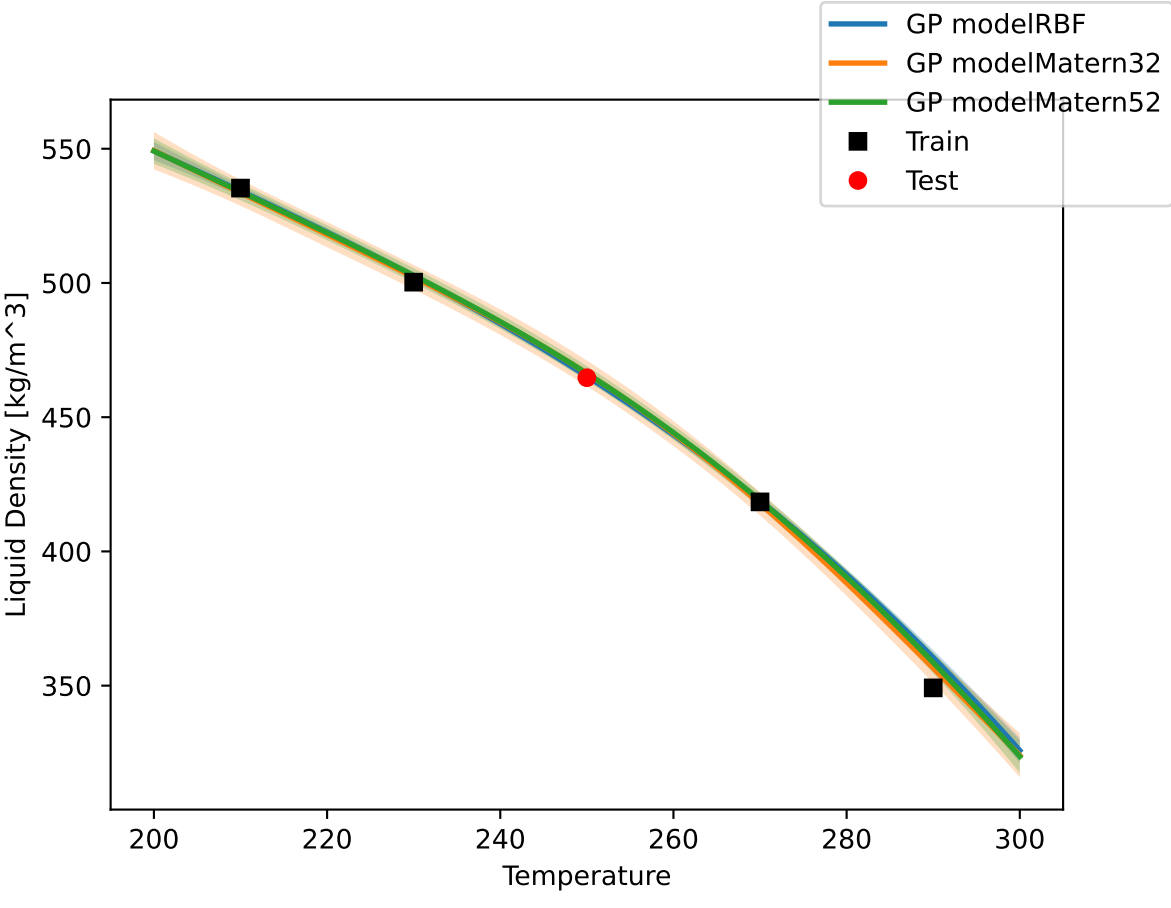
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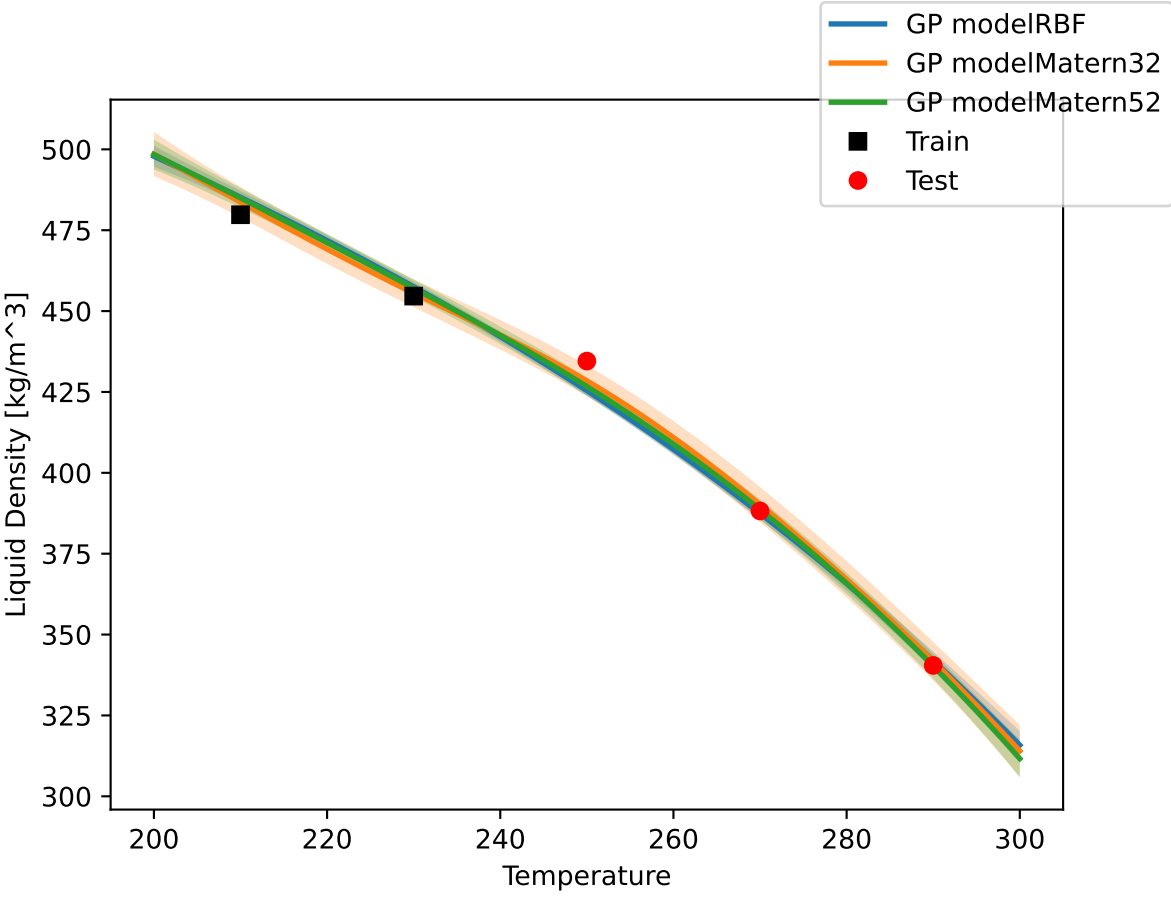
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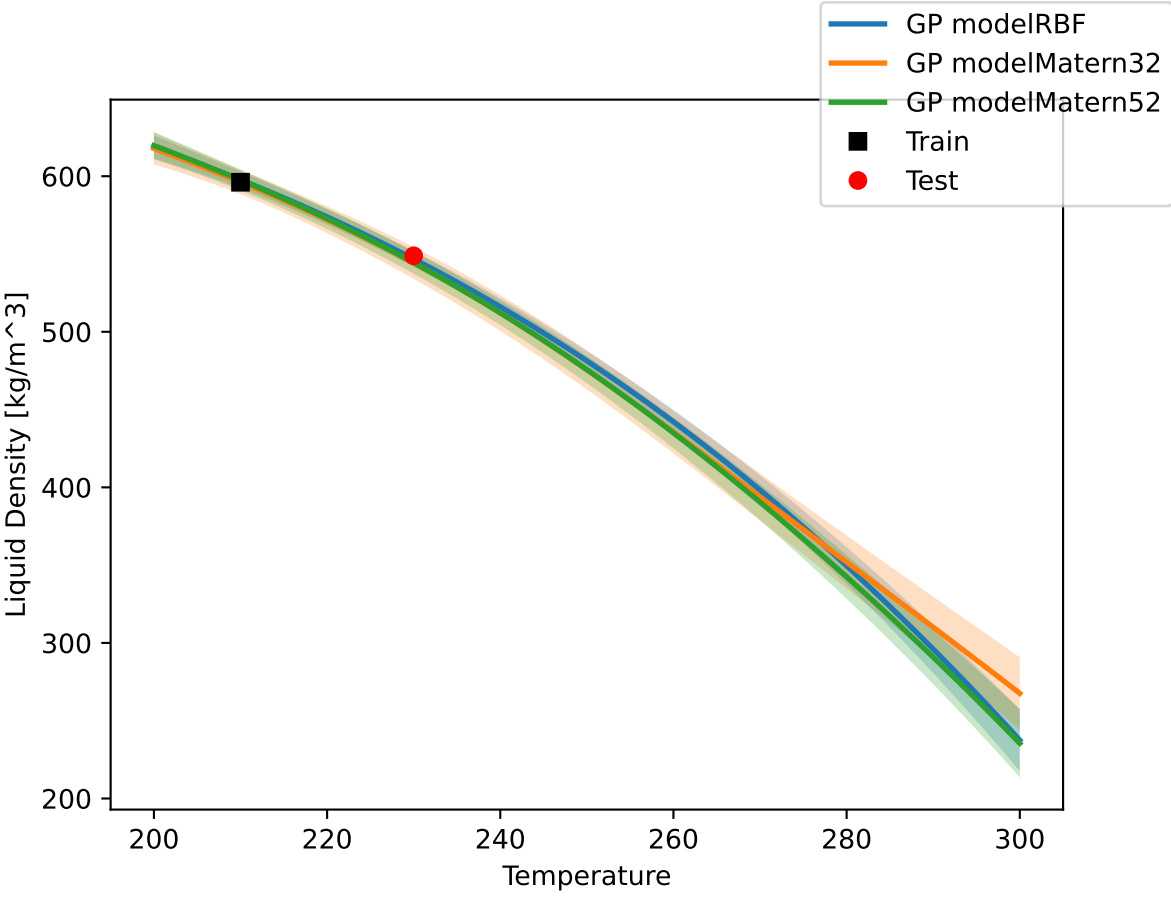
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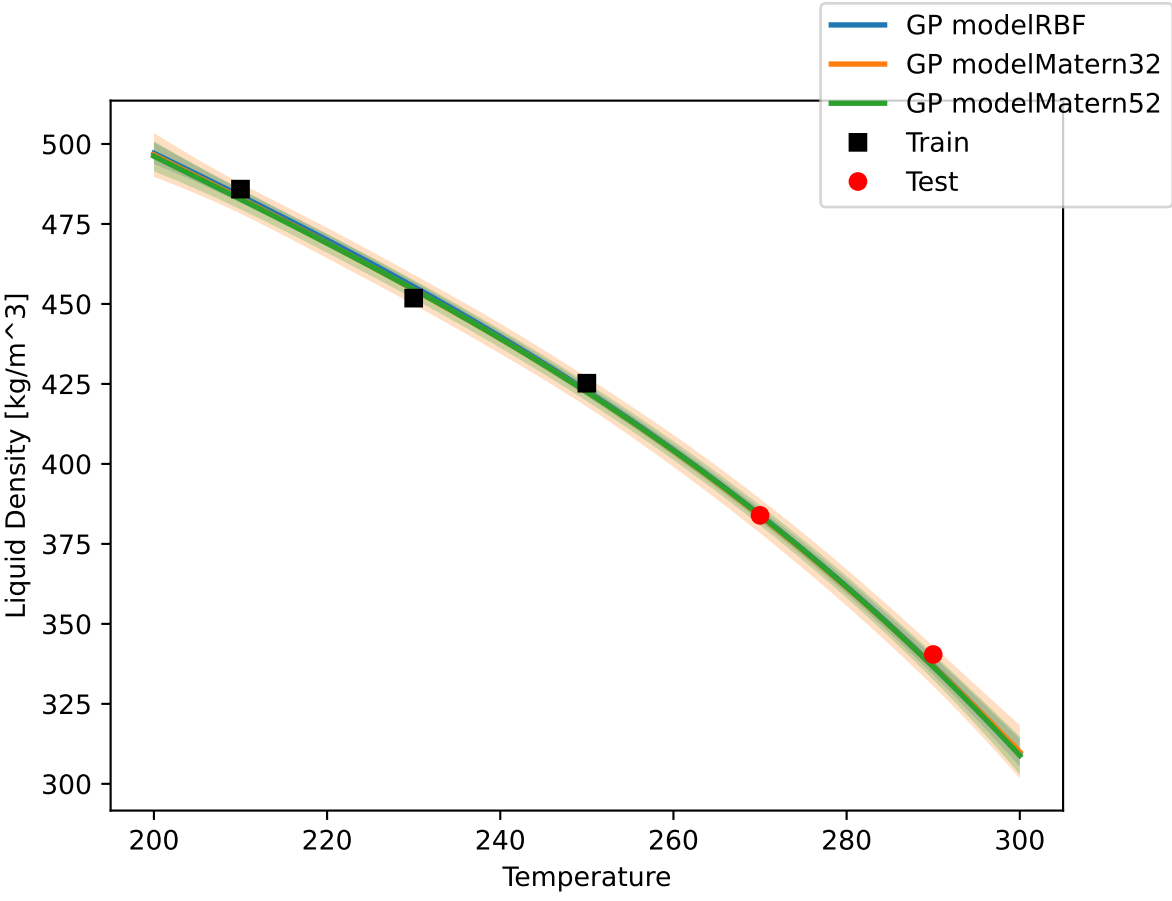
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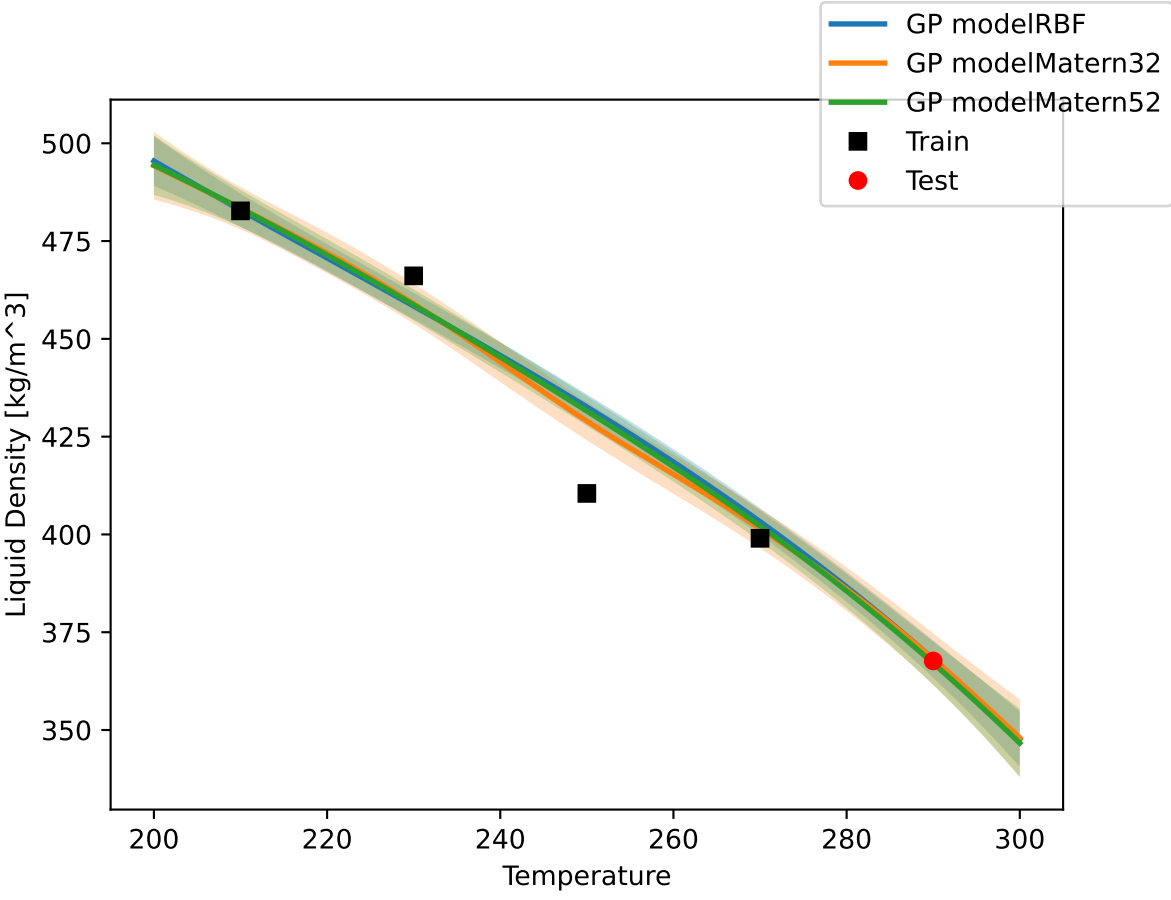
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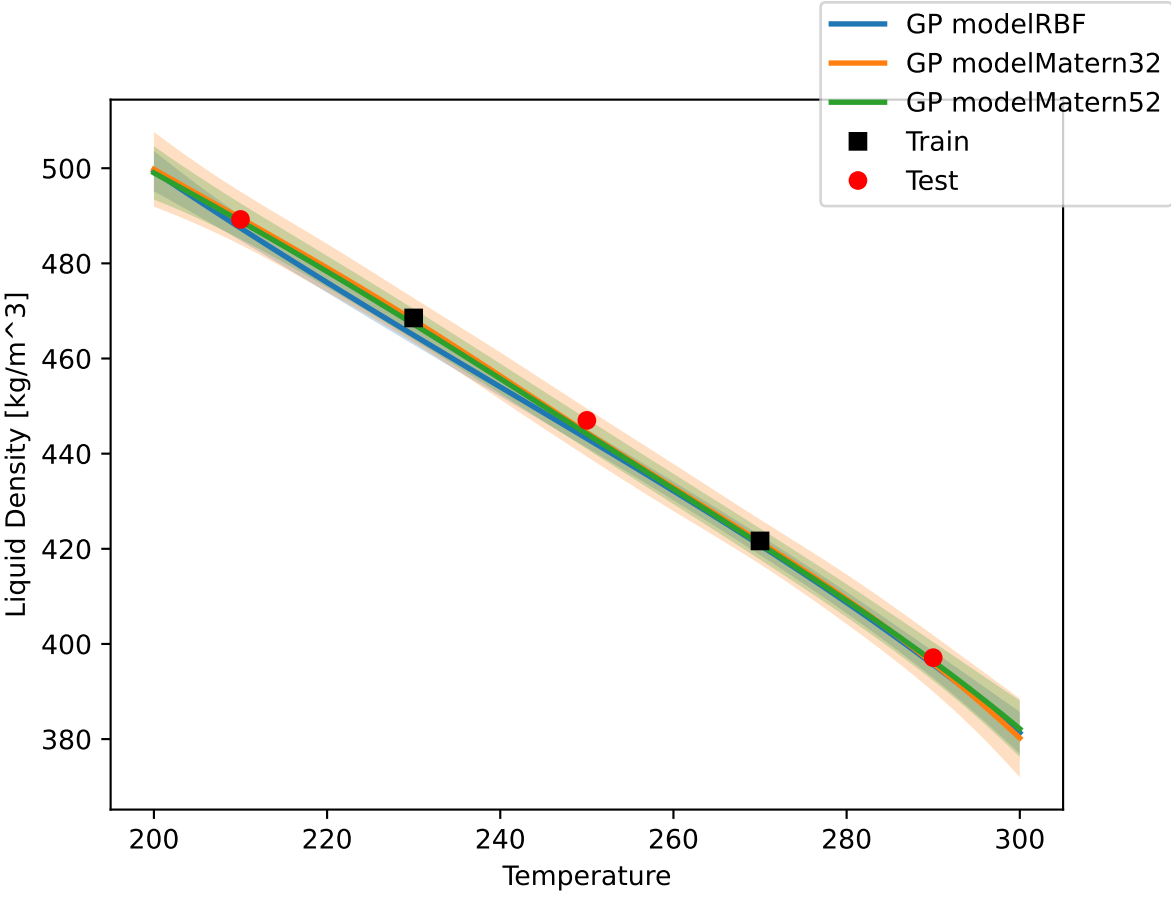
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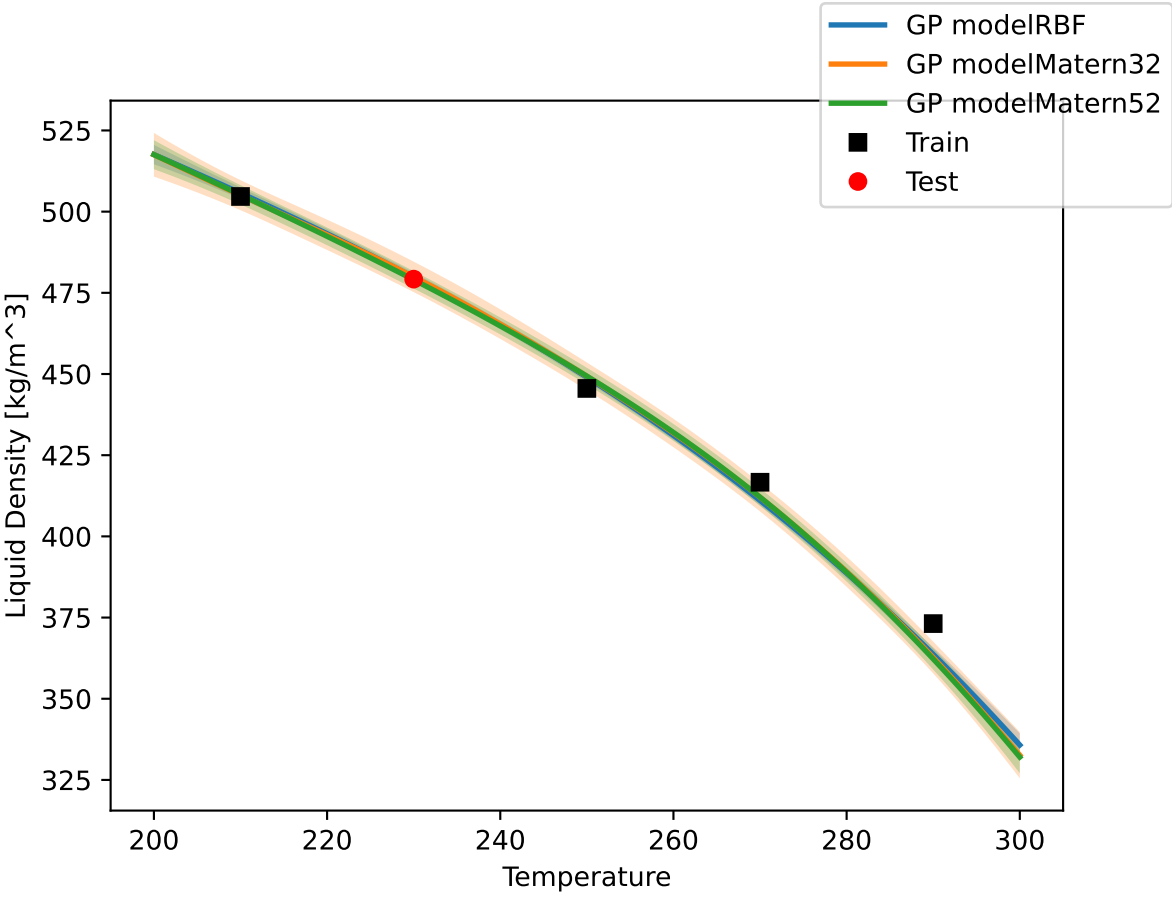
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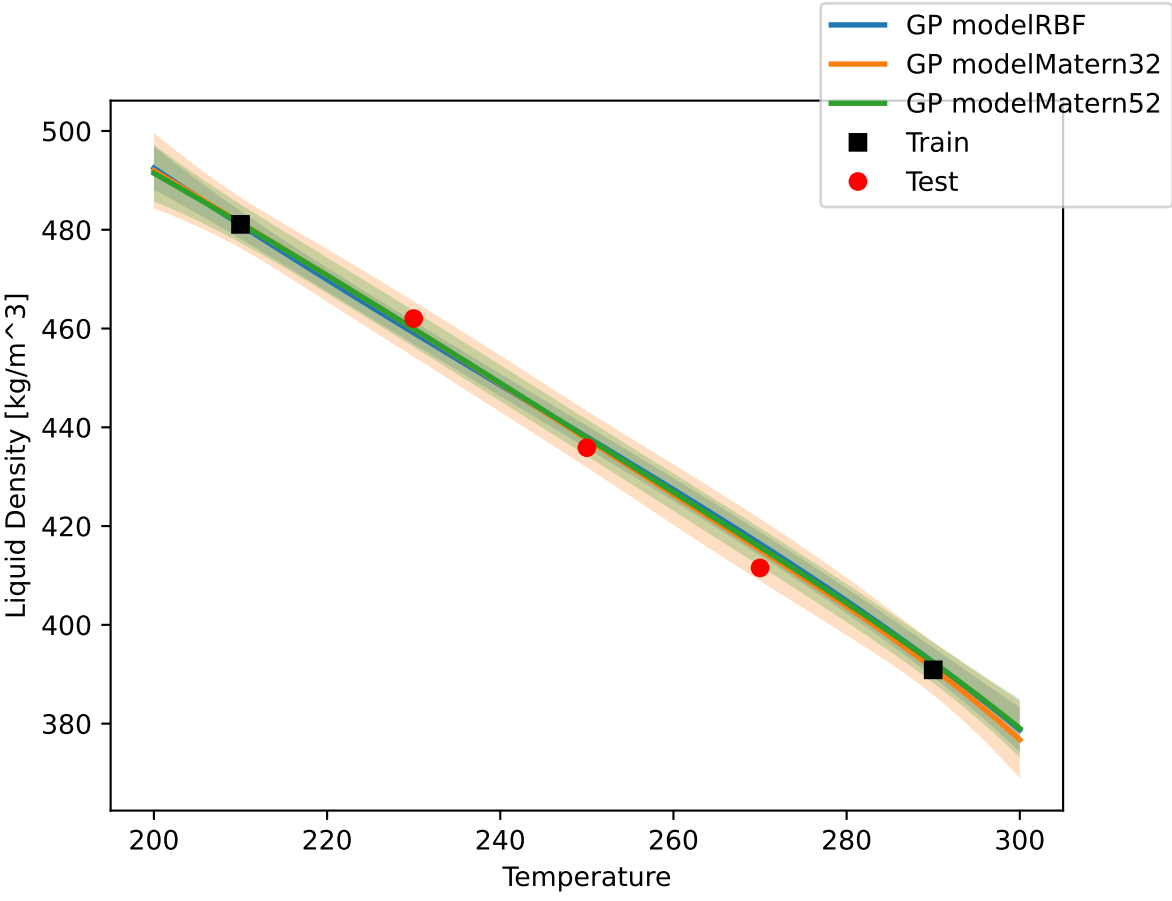
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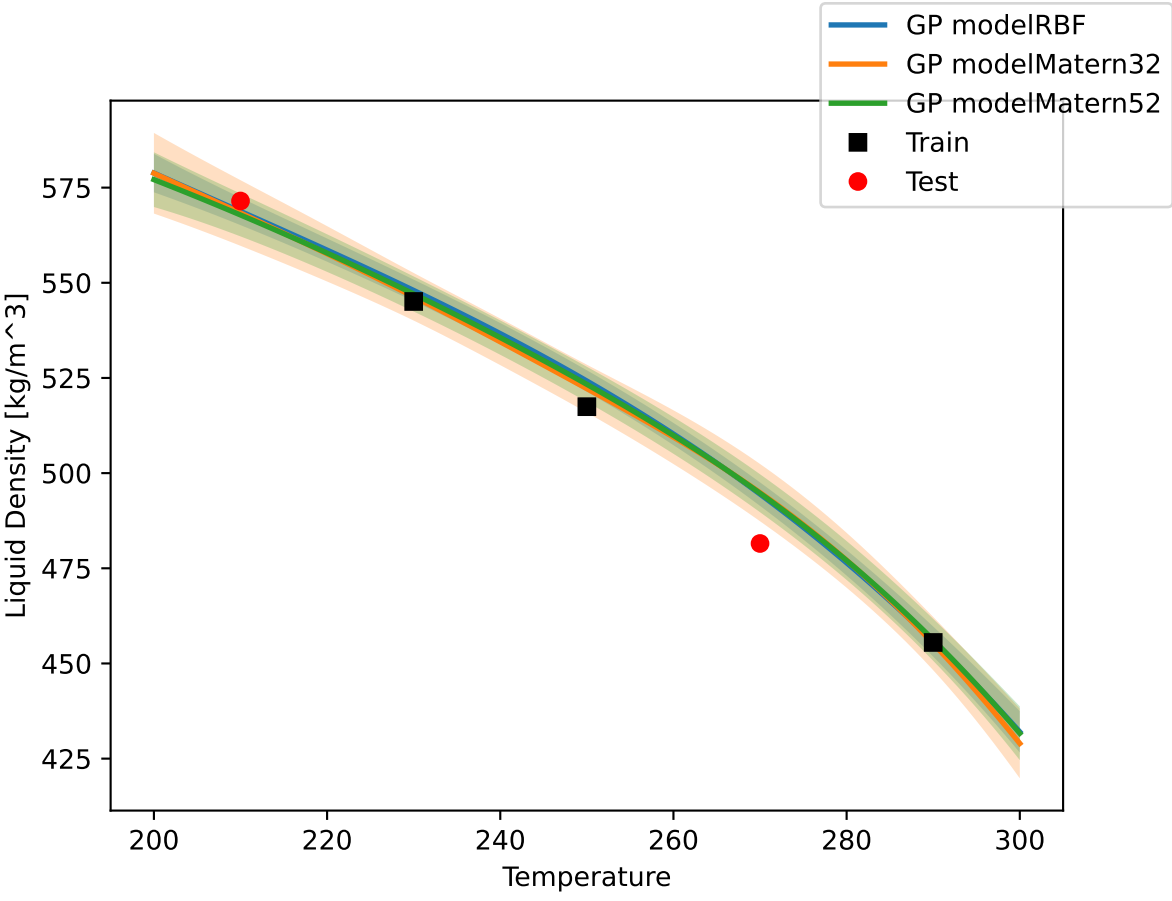
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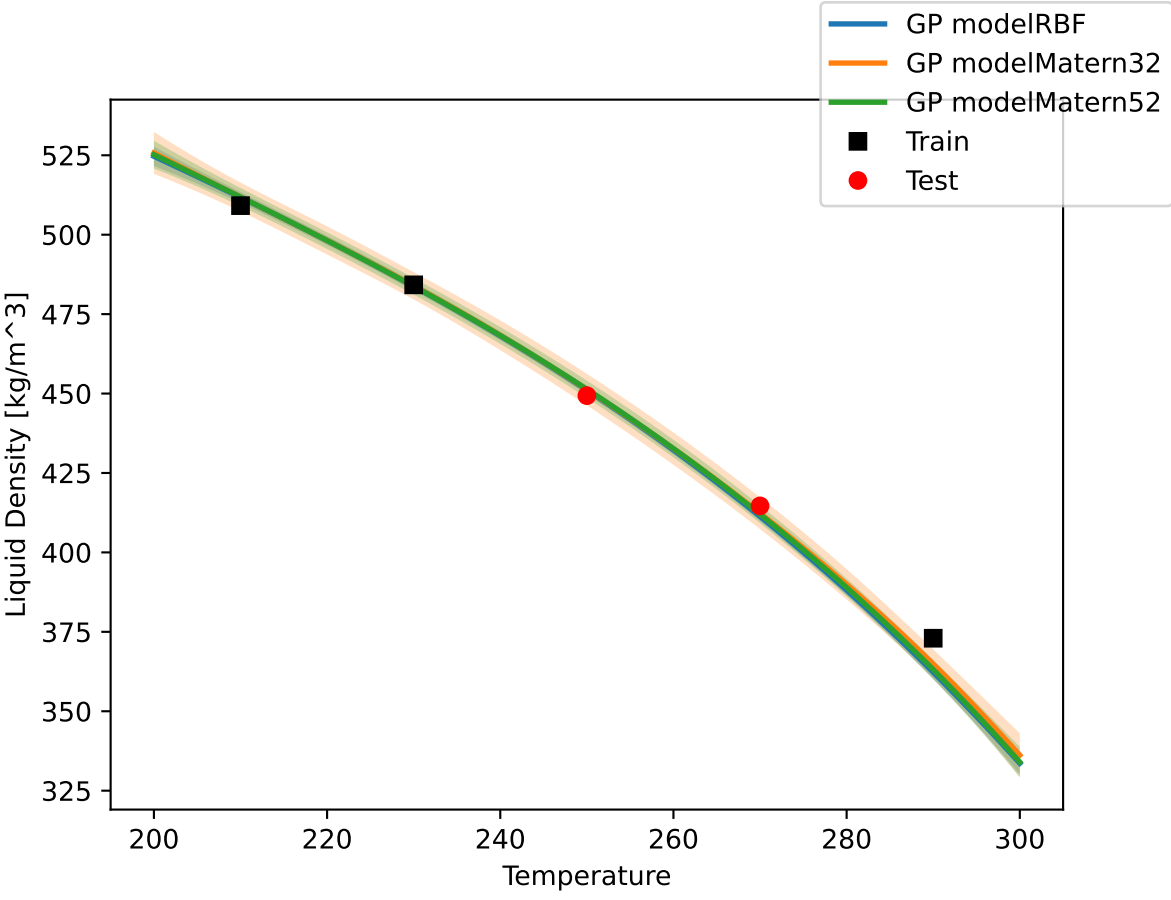
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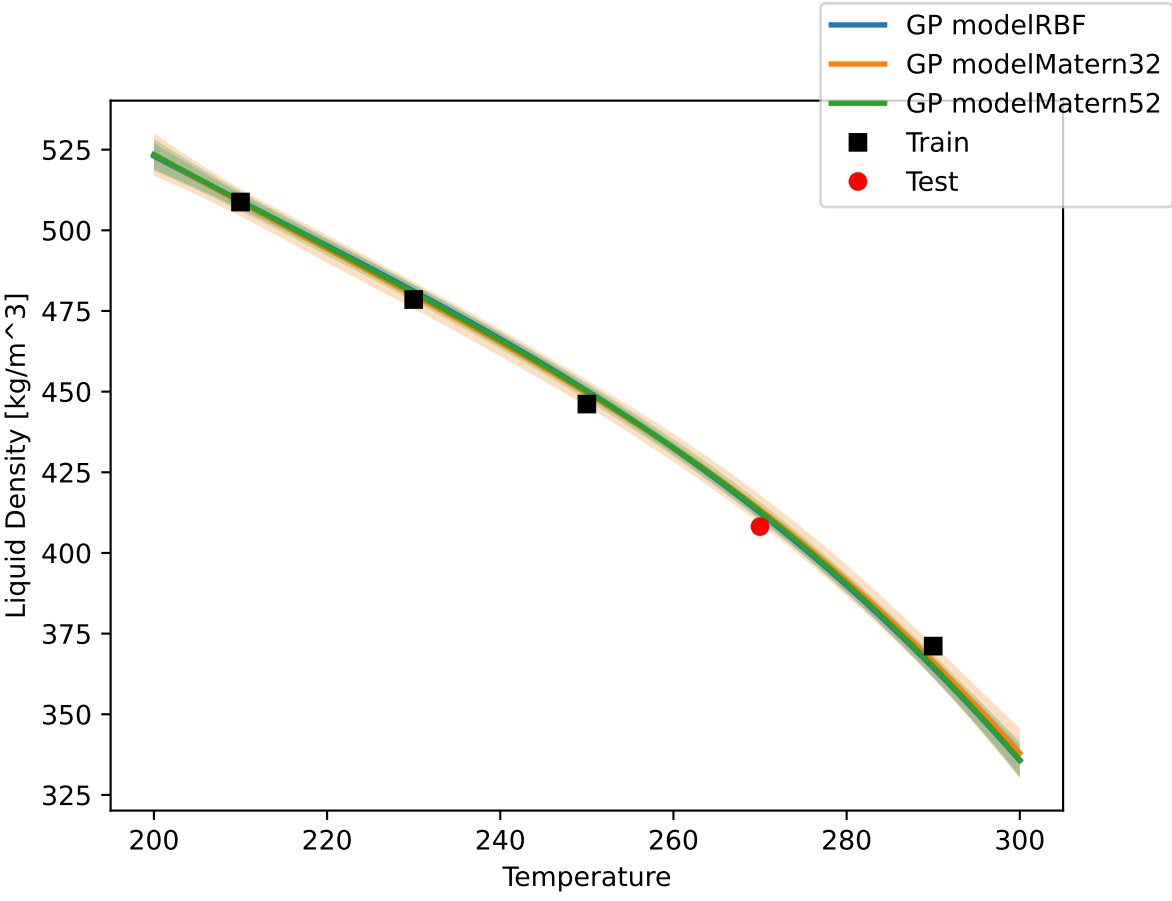
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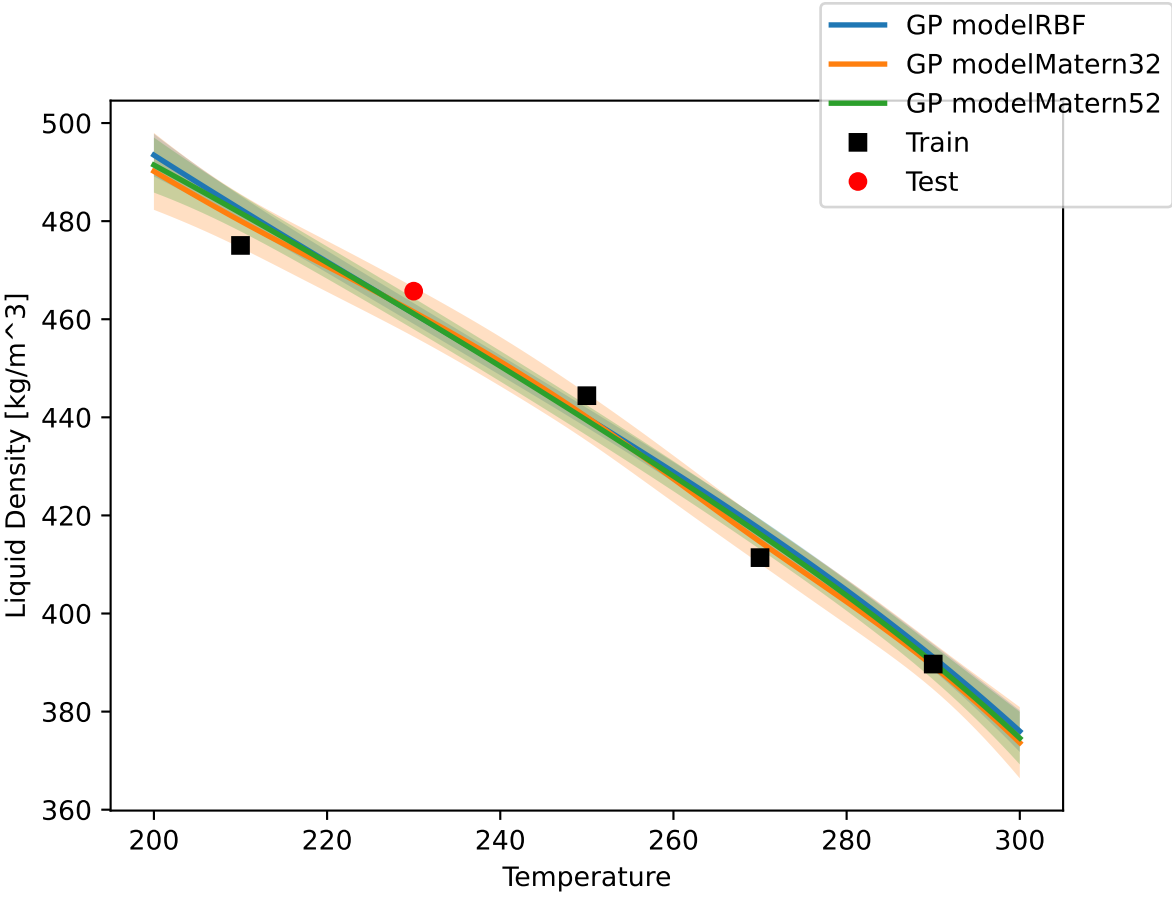
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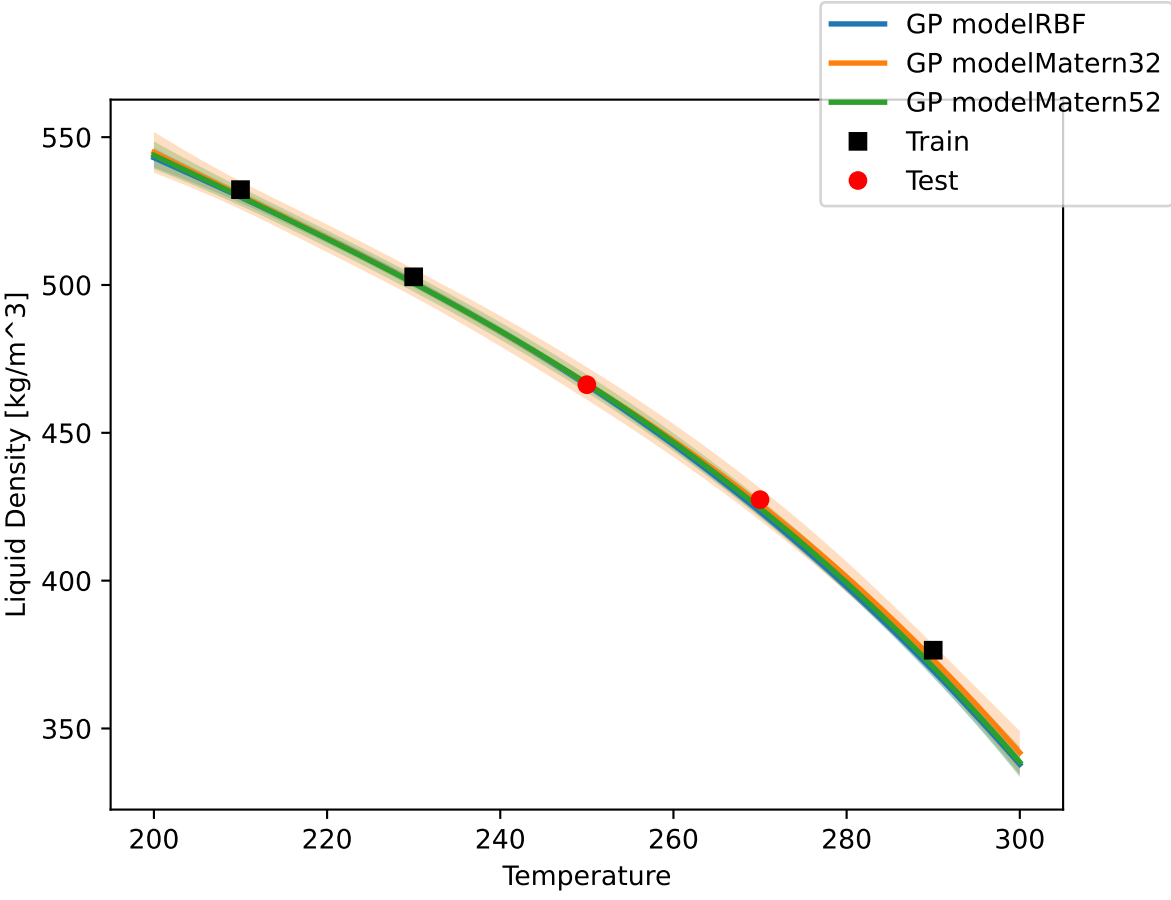
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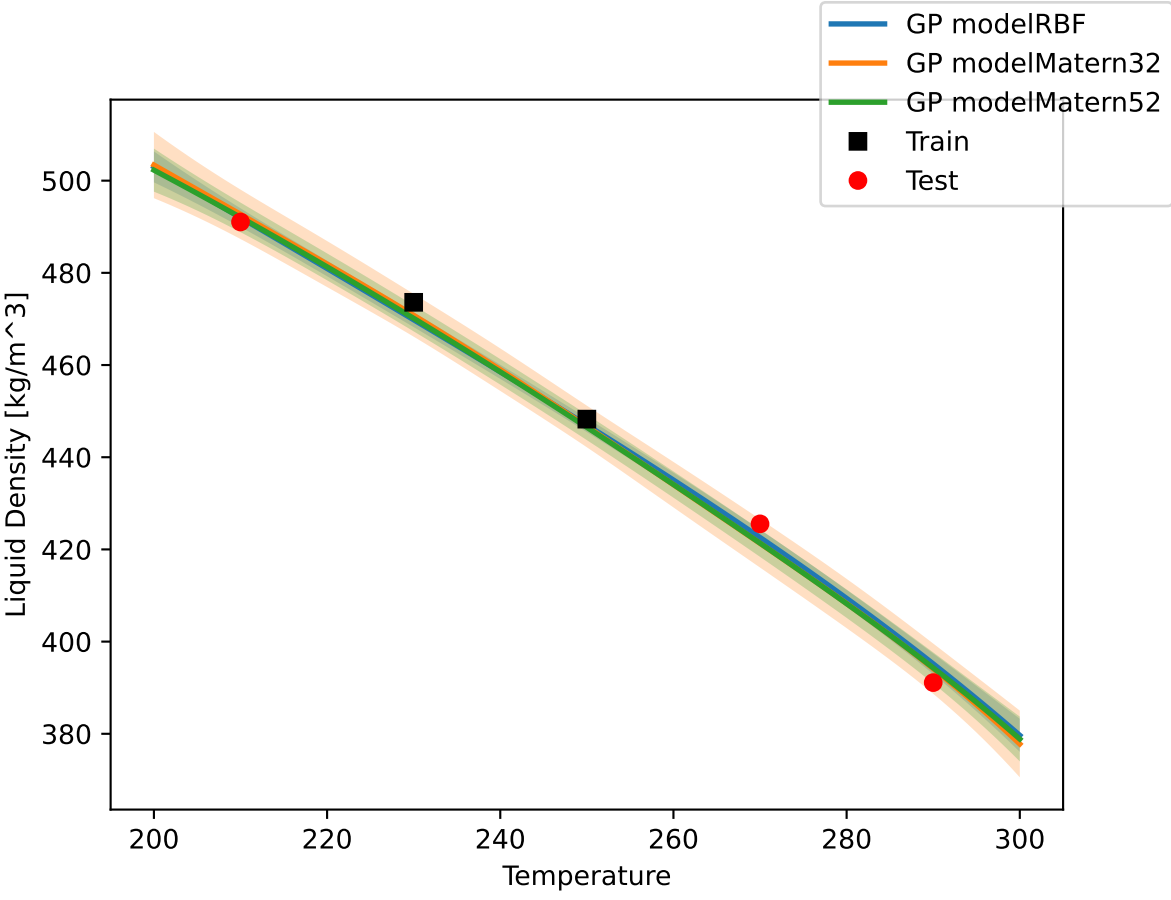
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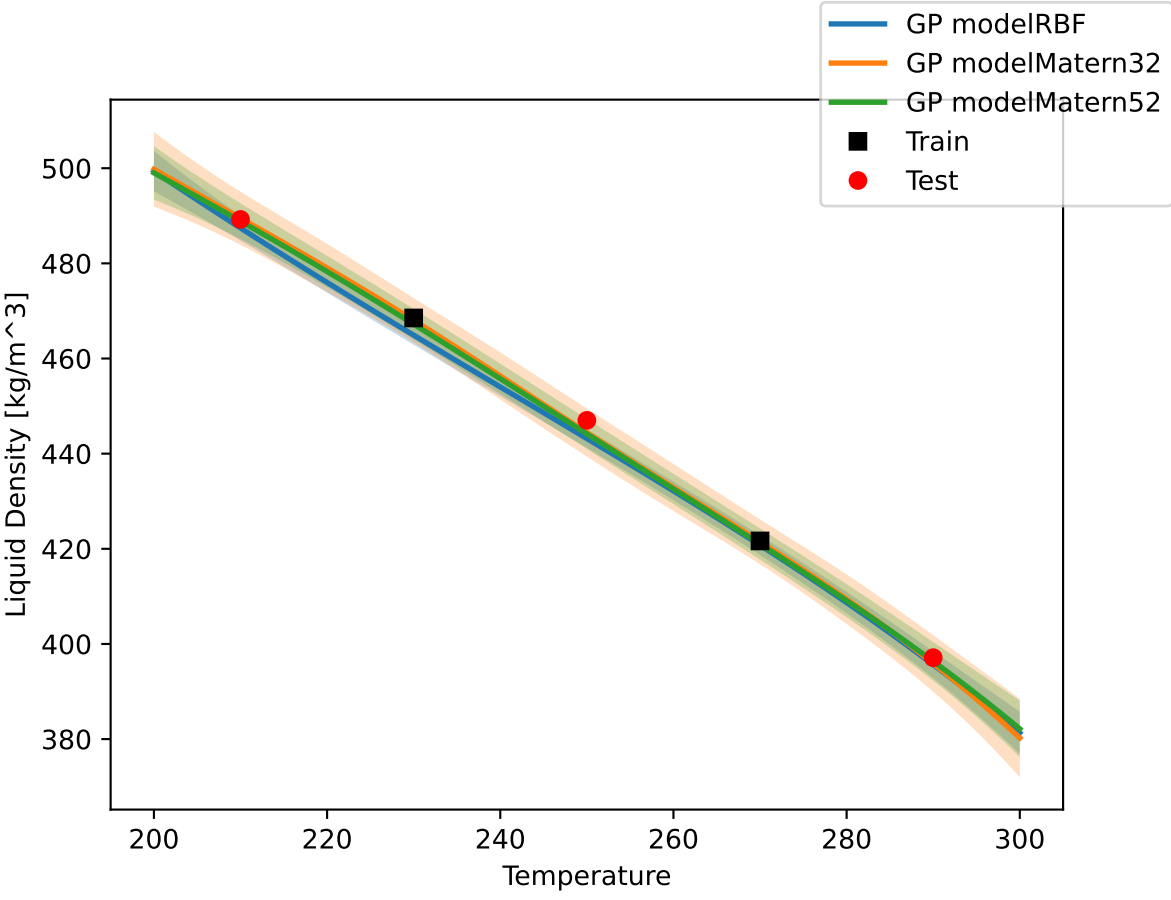
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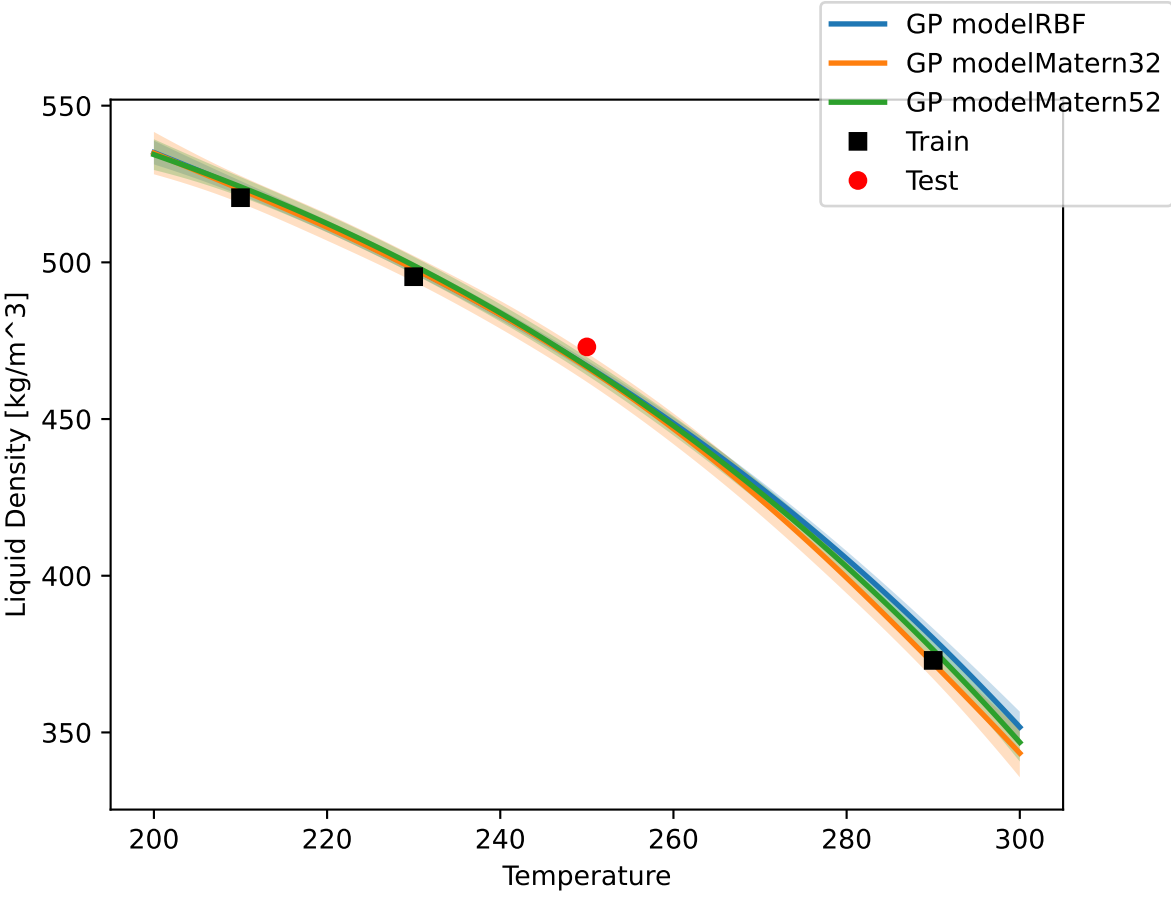
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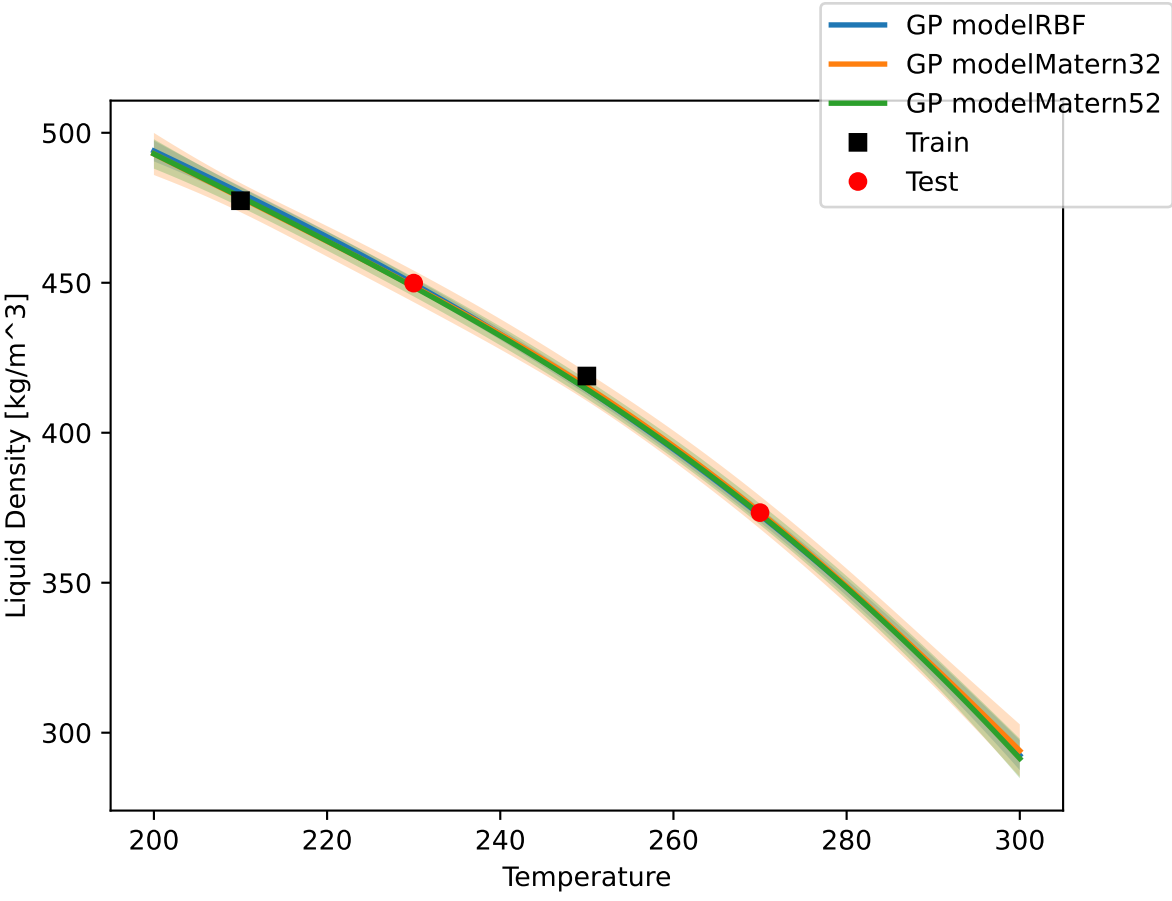
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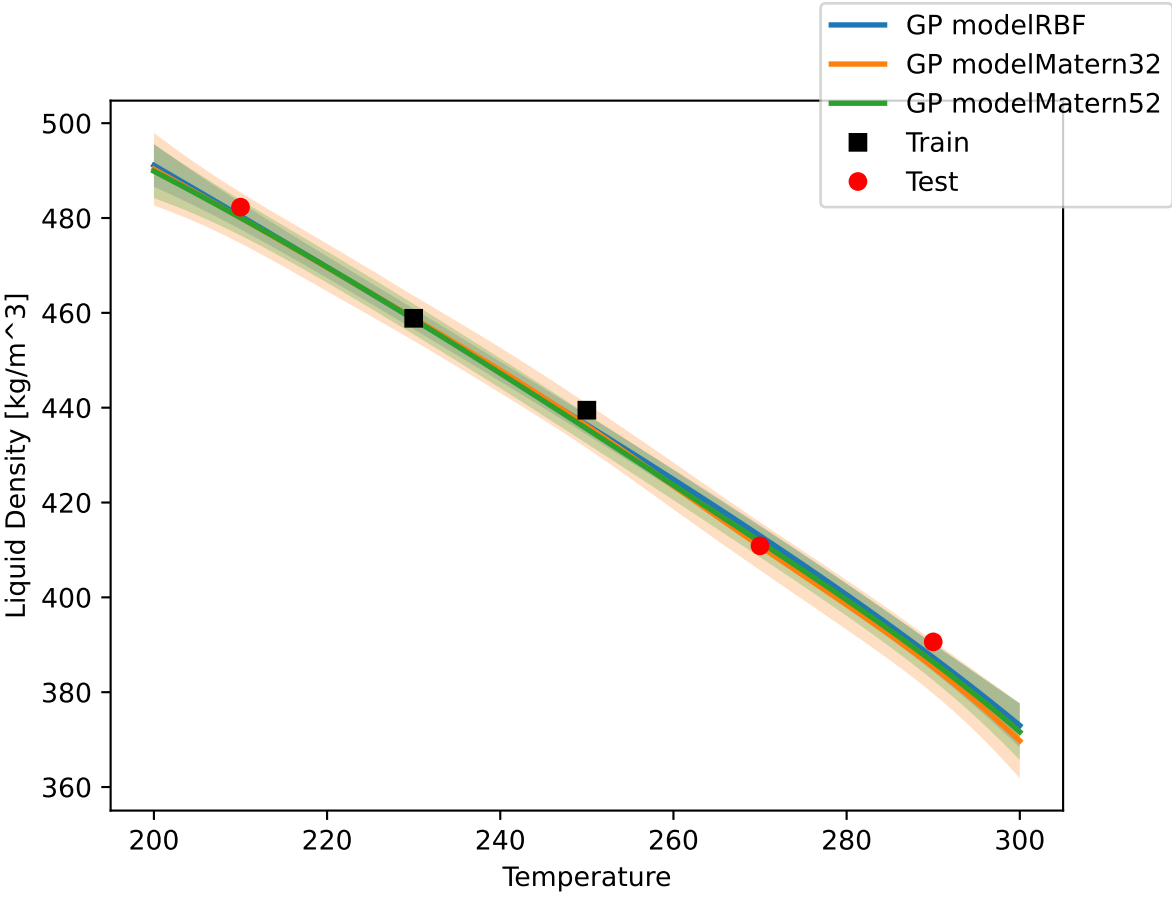
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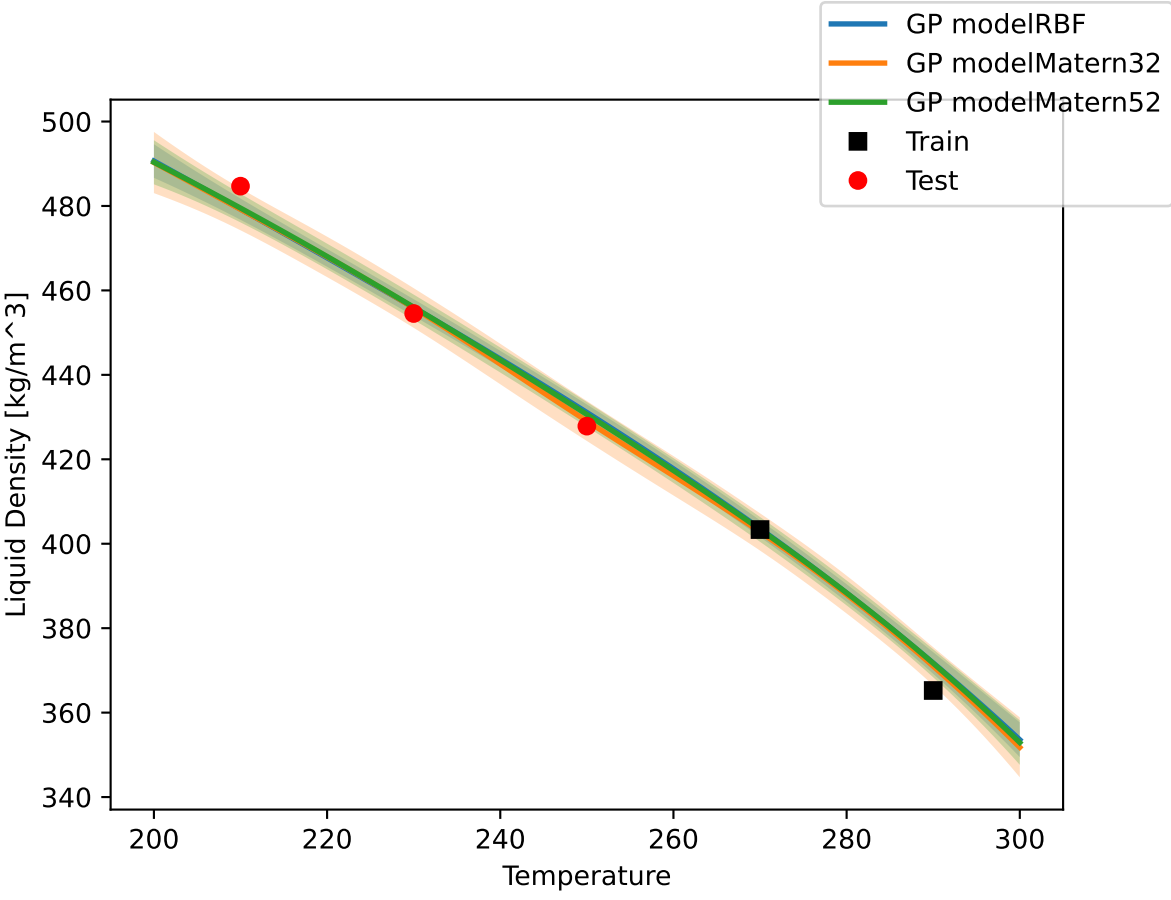
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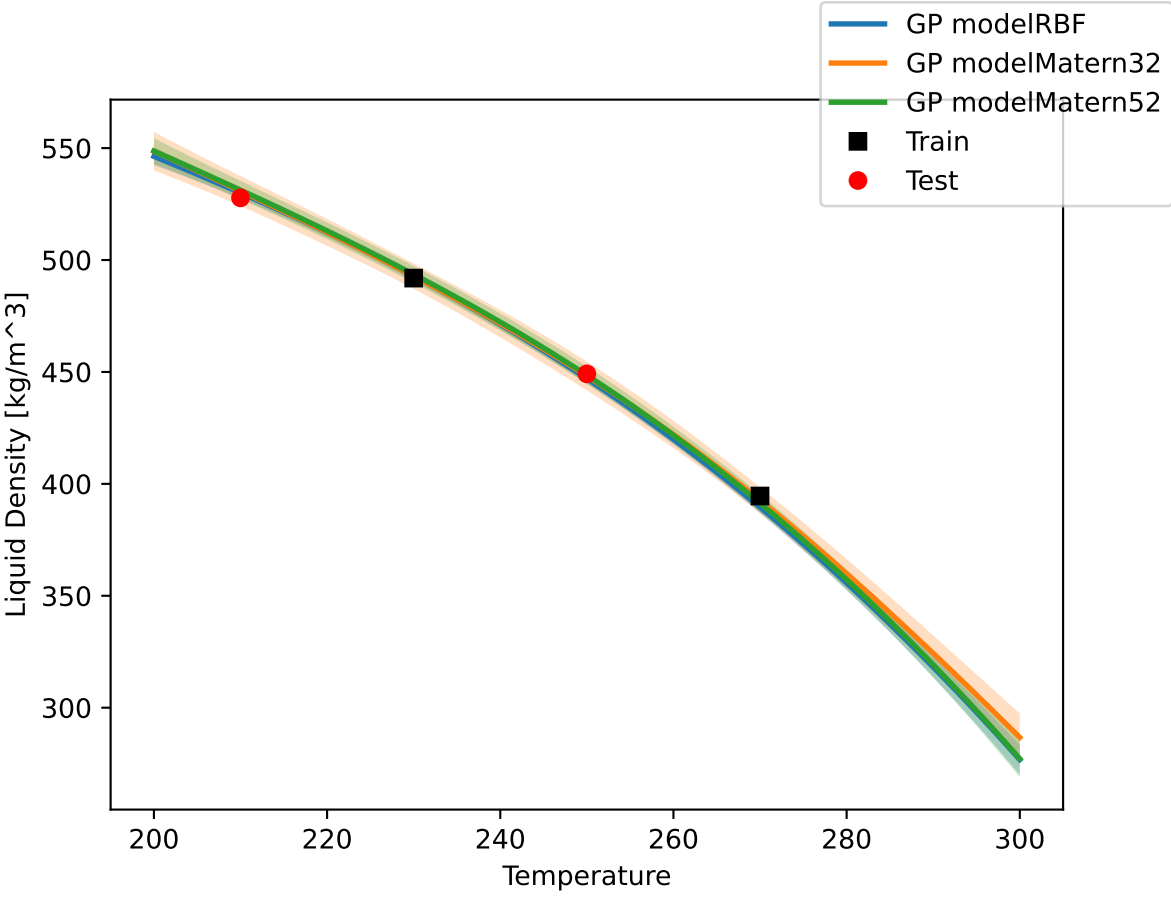
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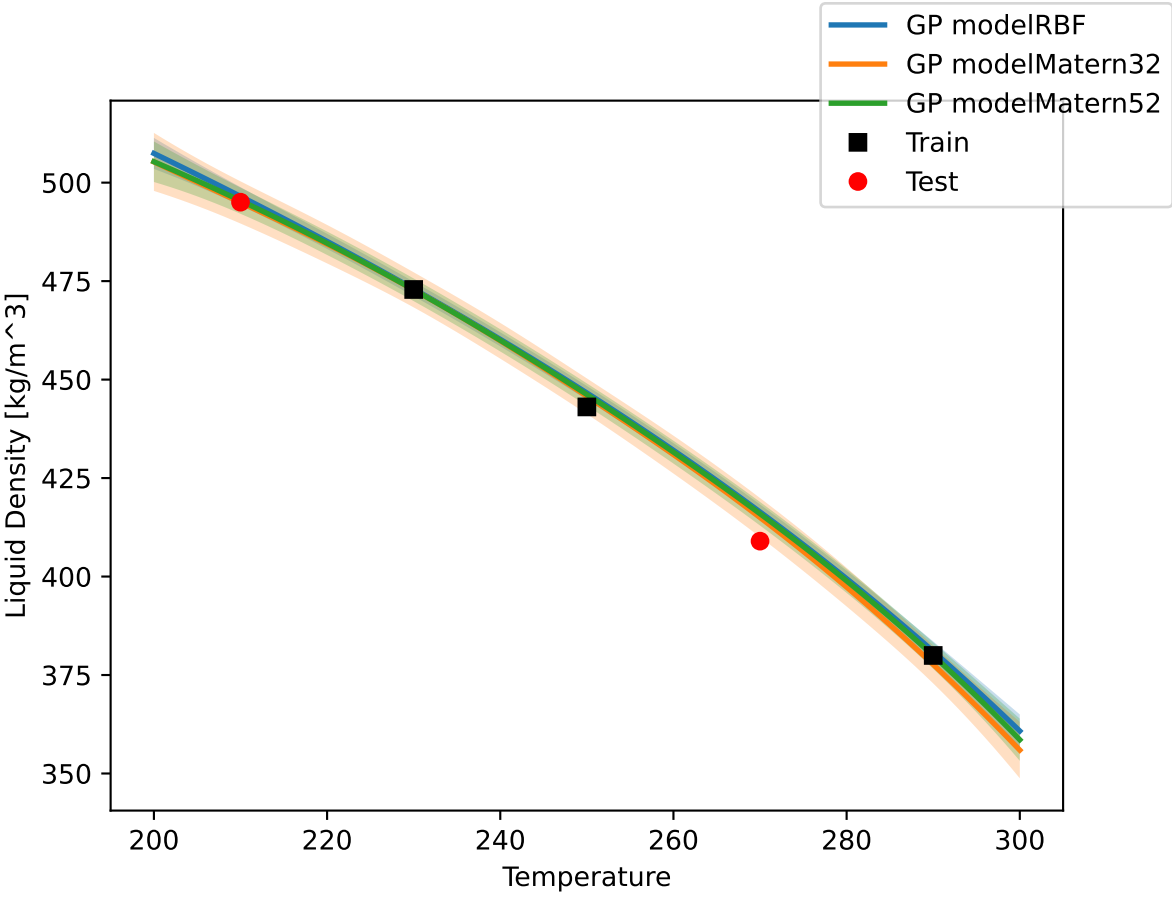
Temperature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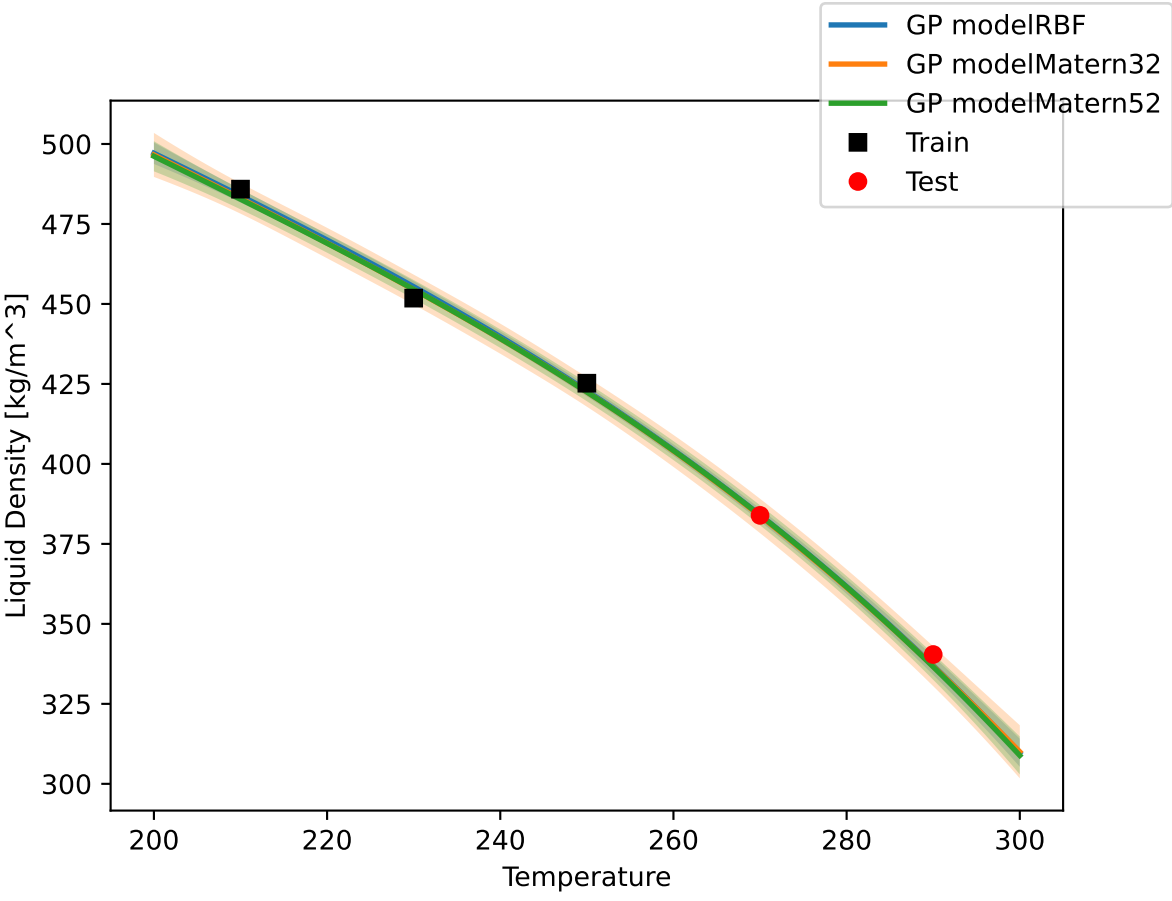
Temperature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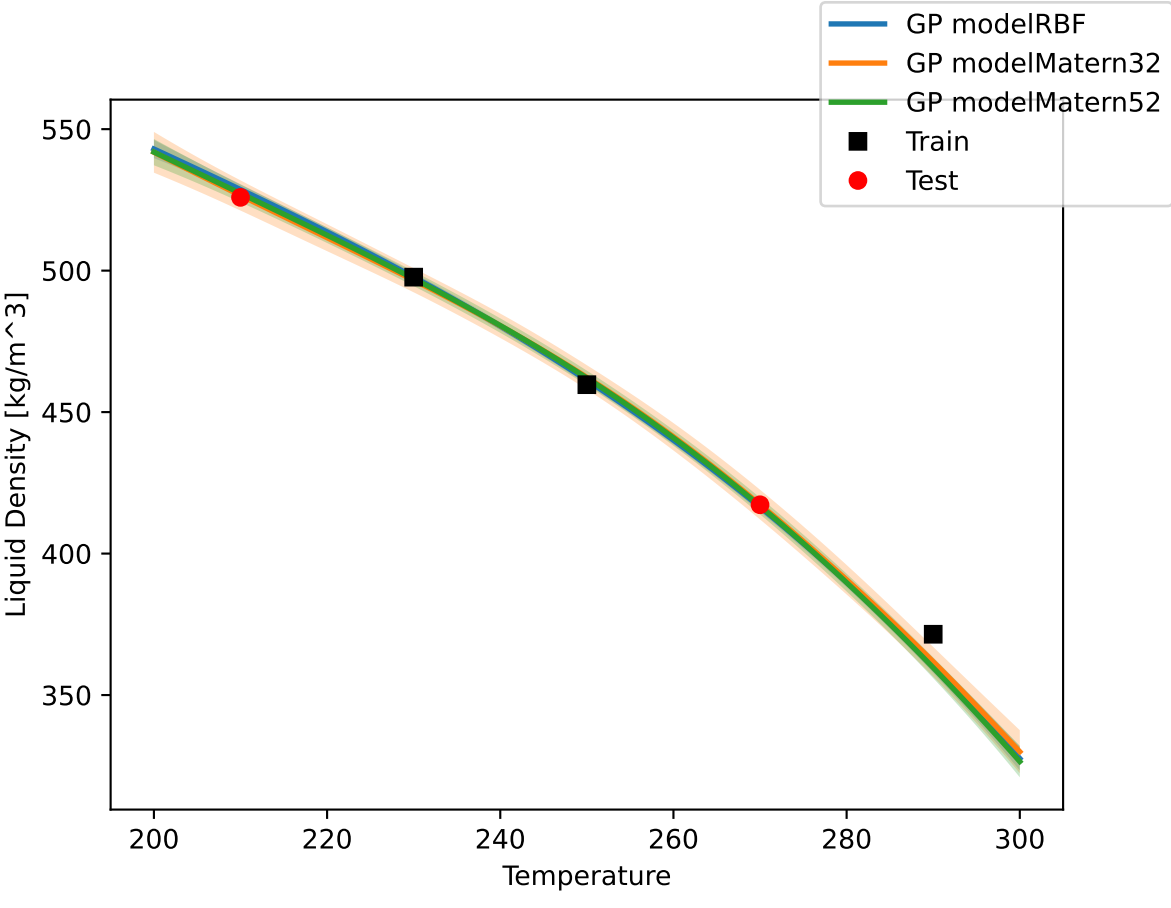
Temperature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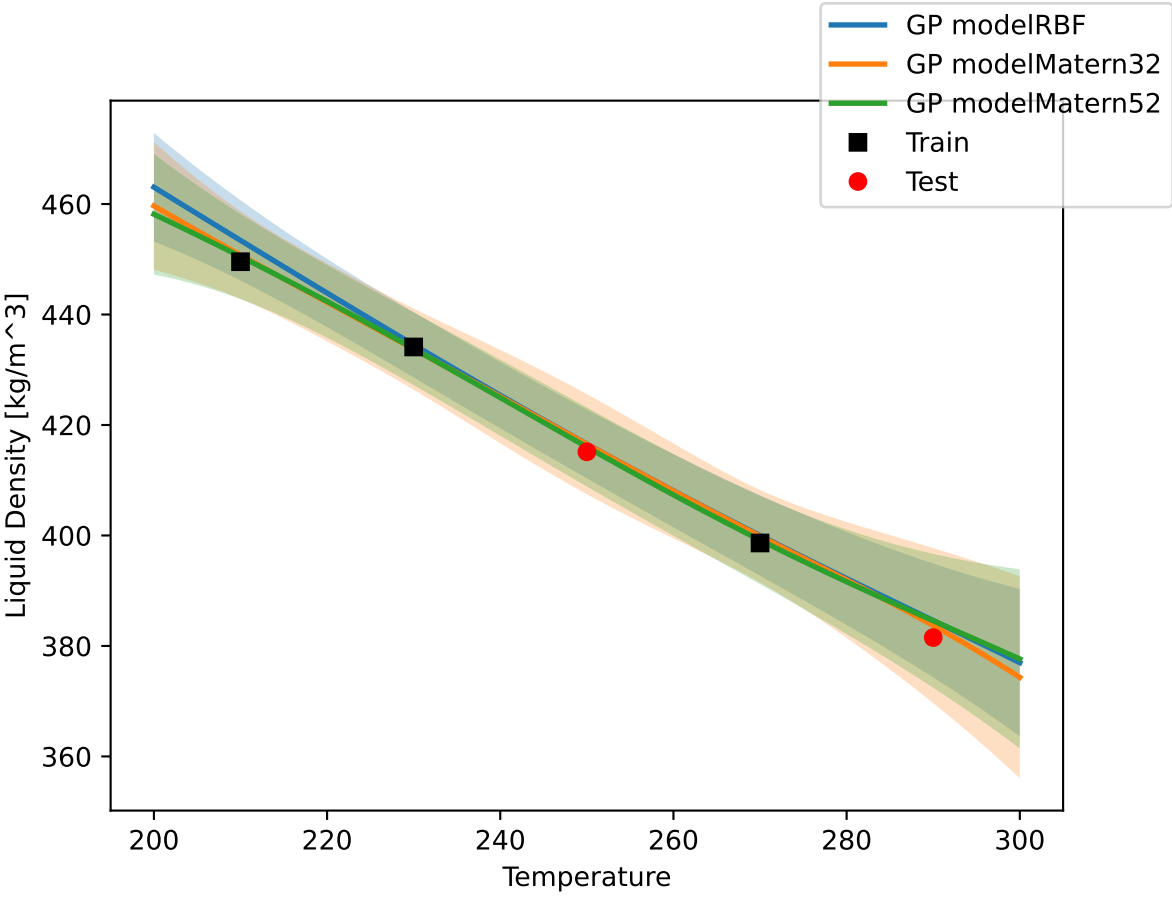
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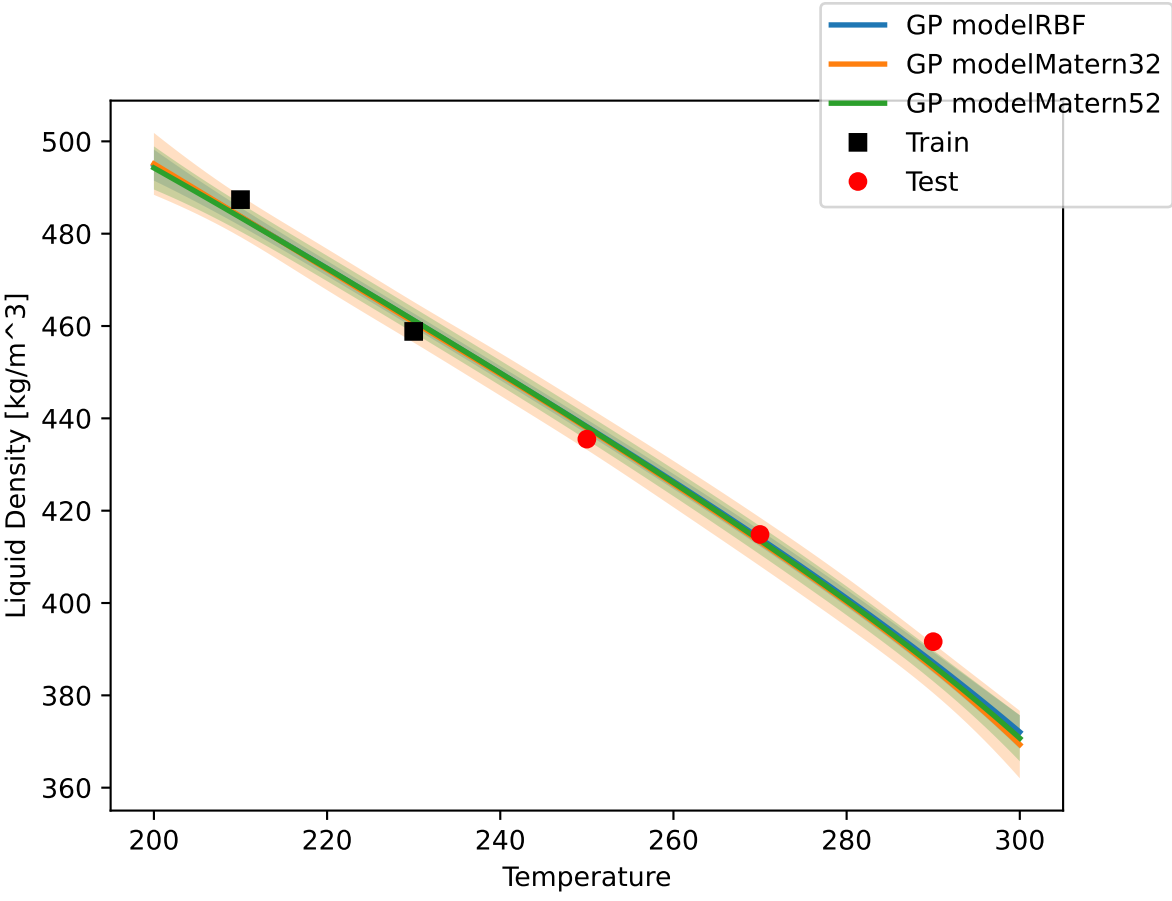
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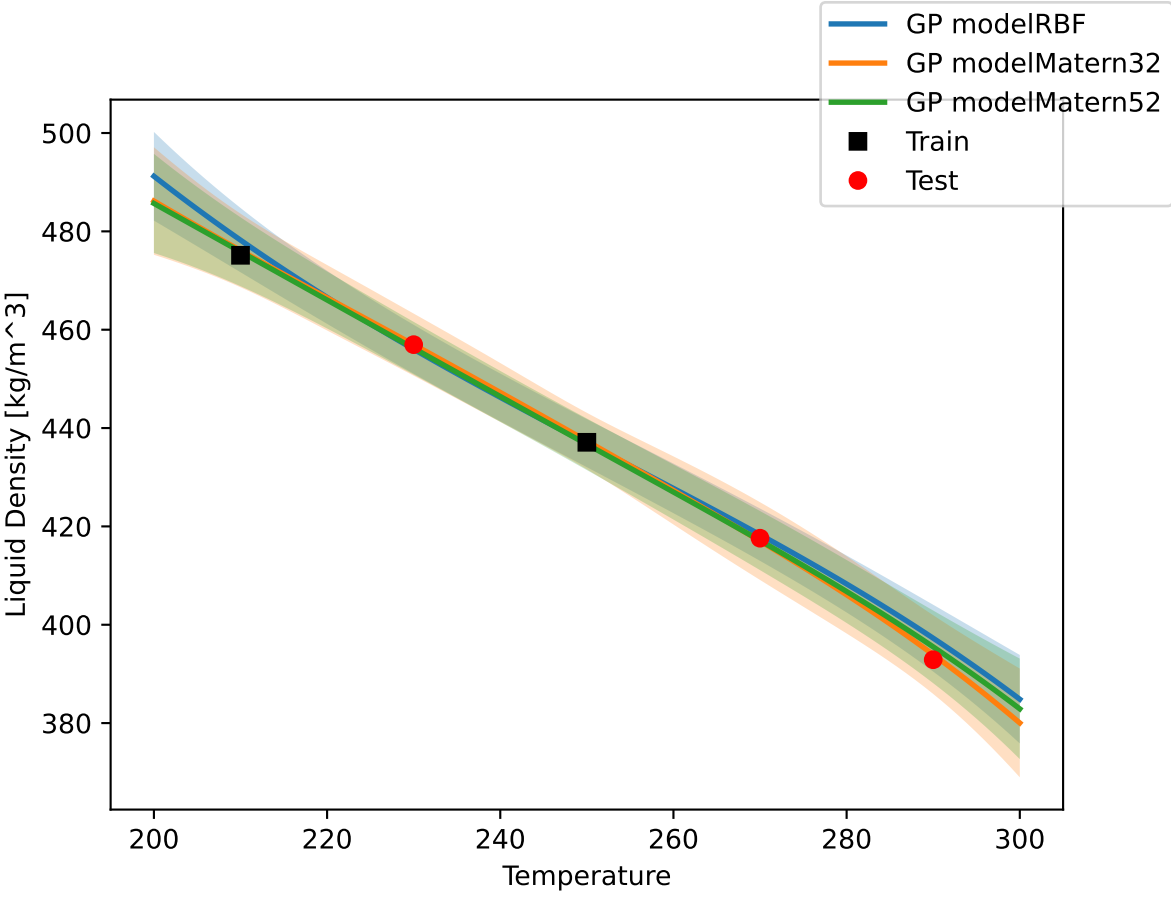
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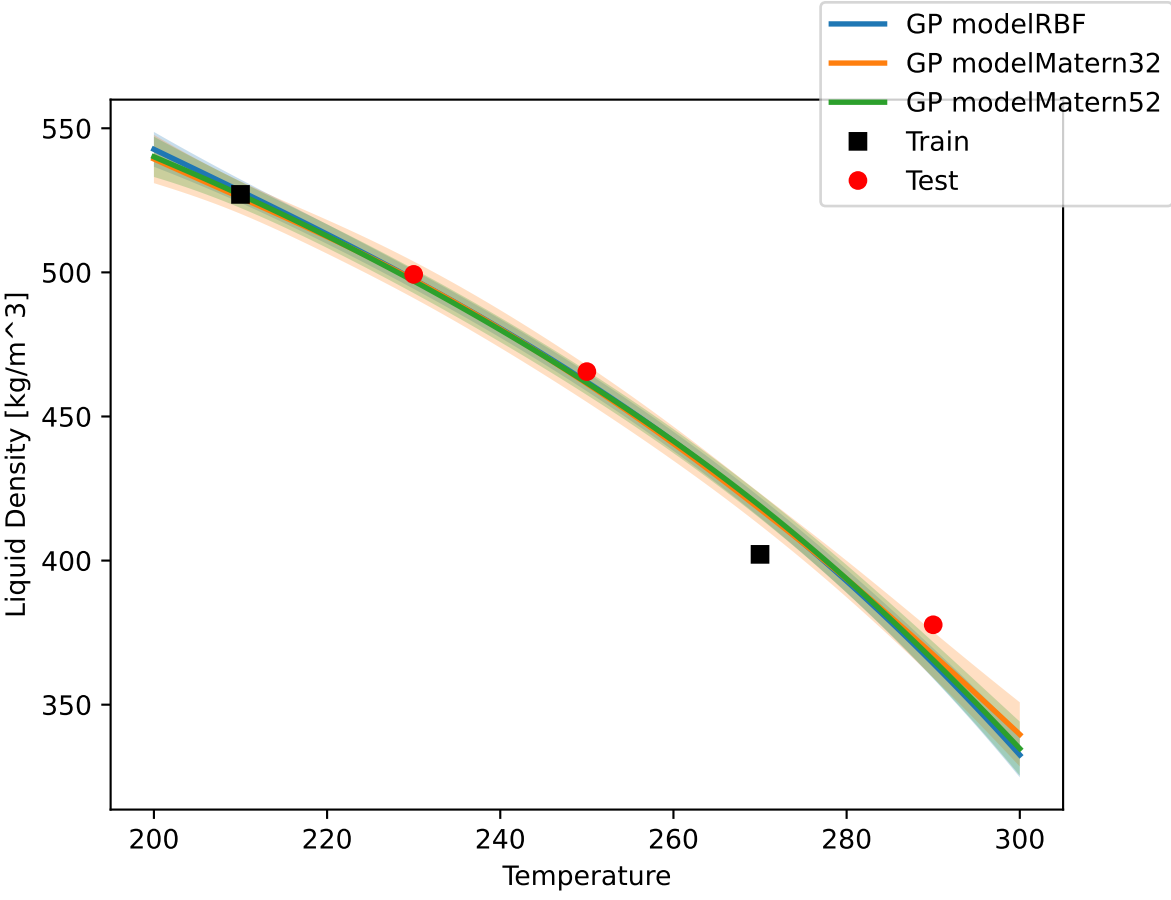
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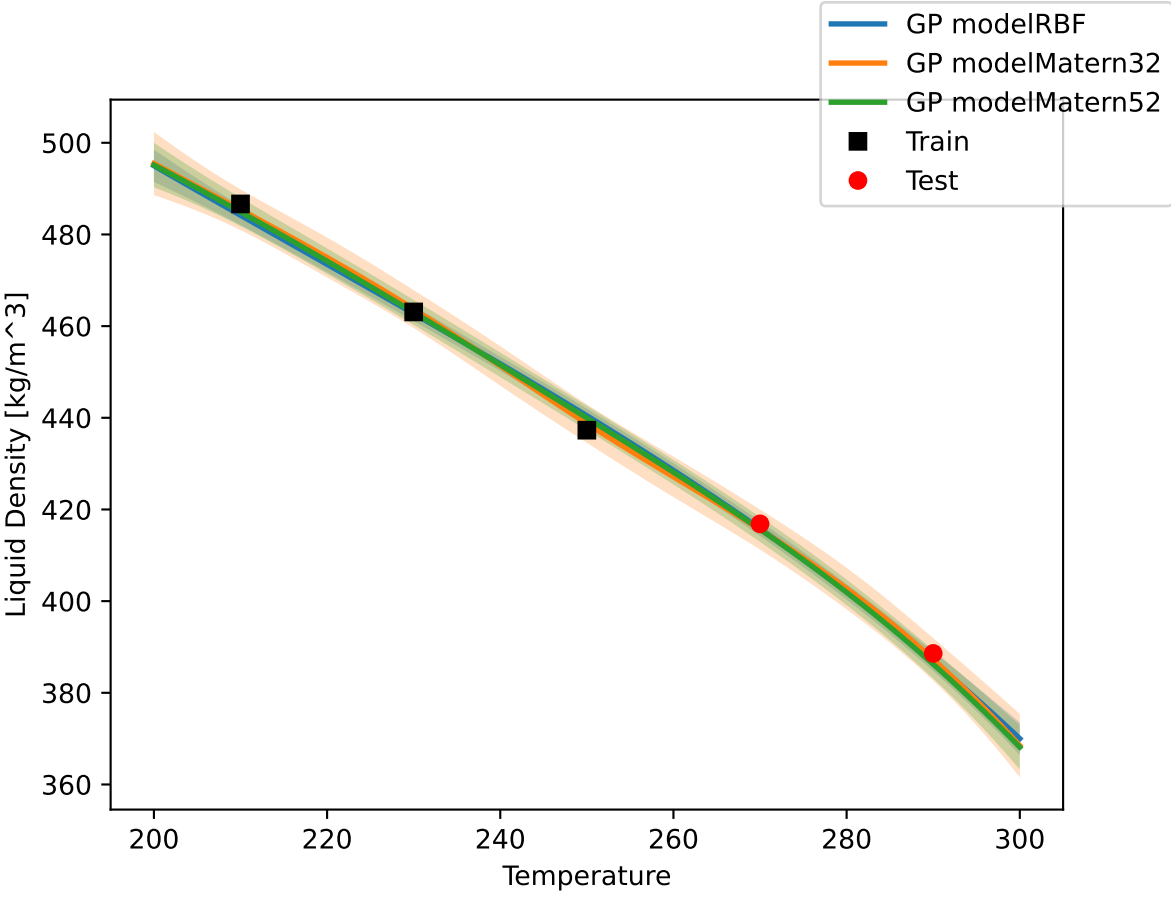
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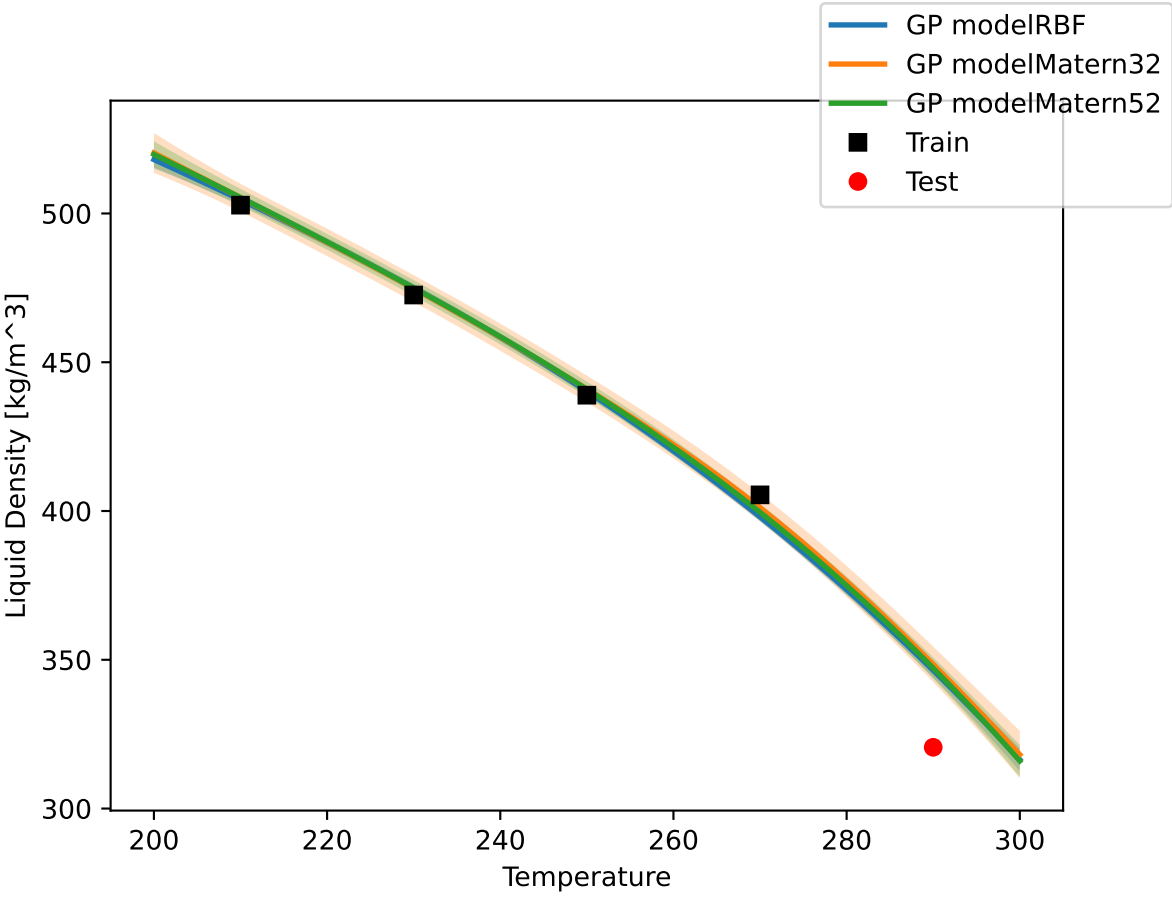
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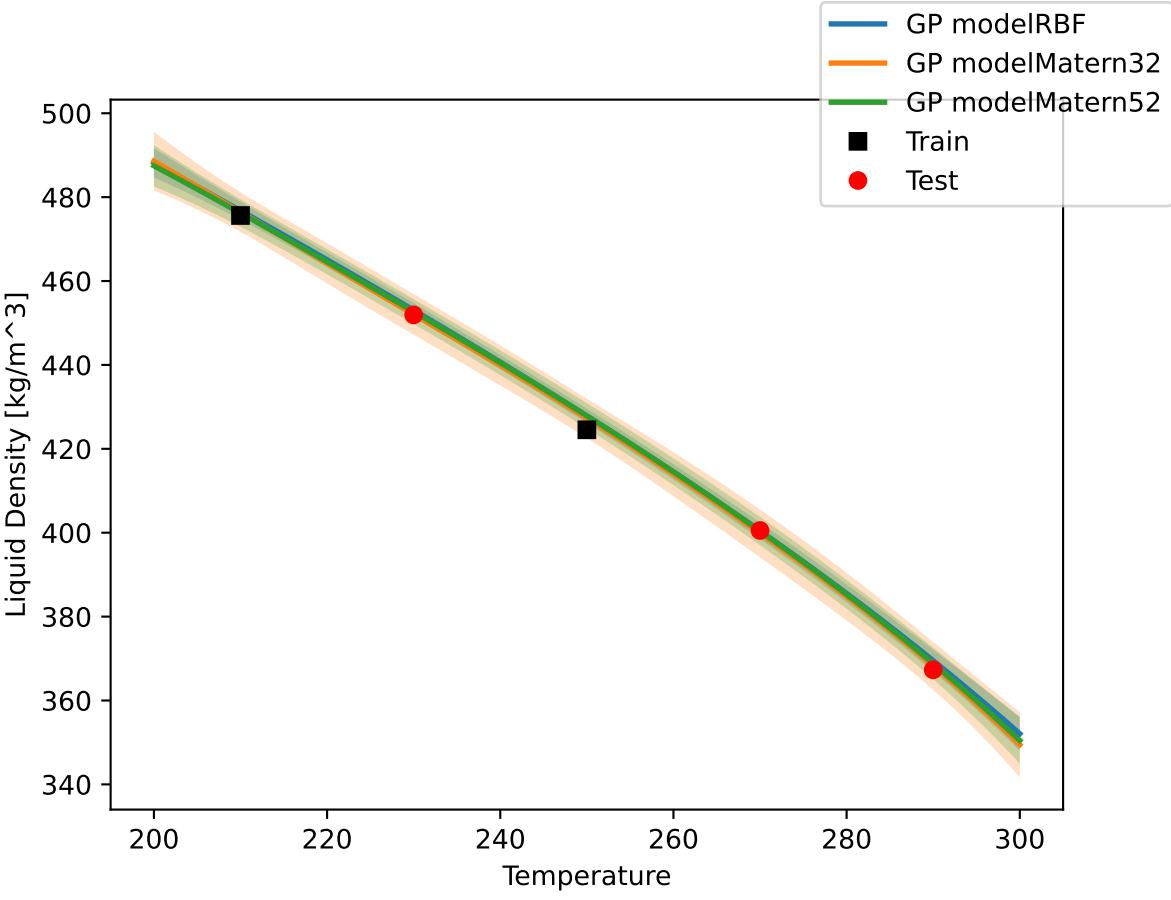
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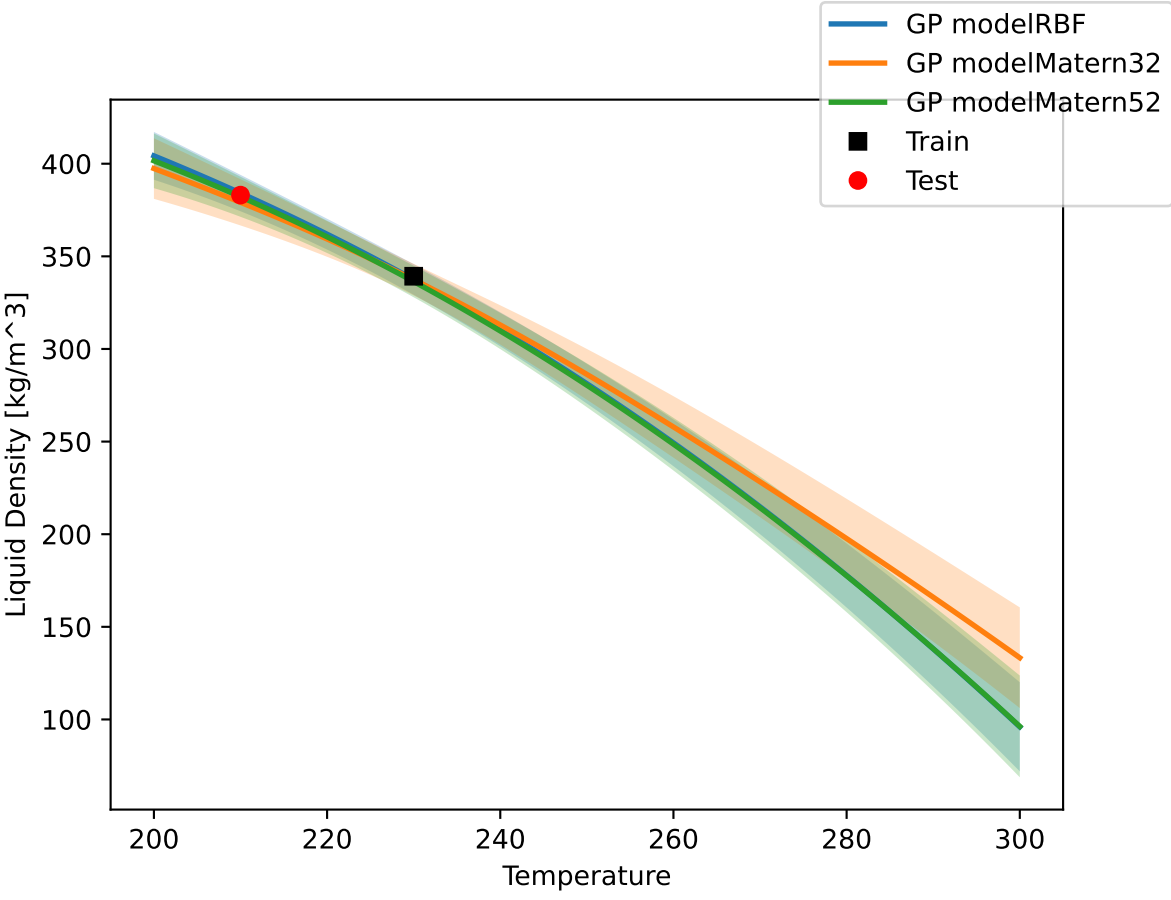
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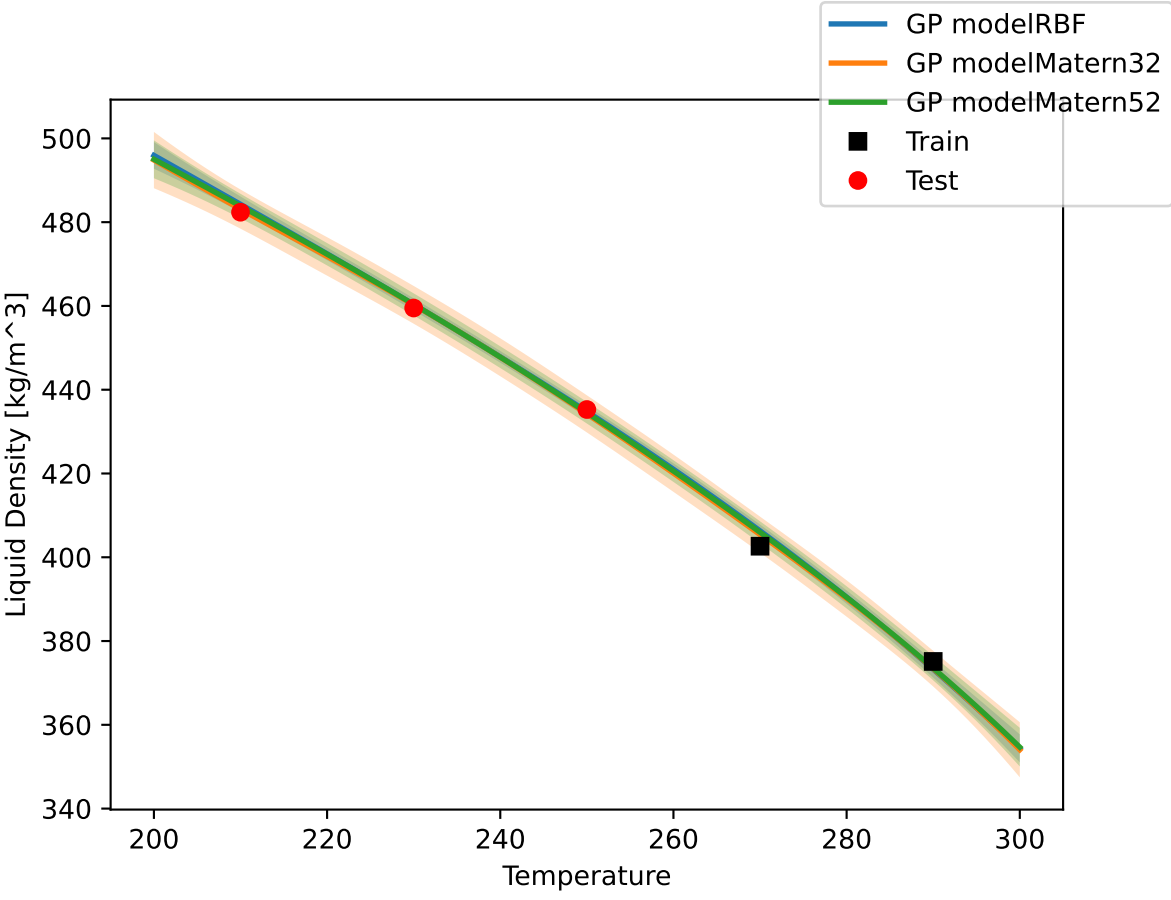
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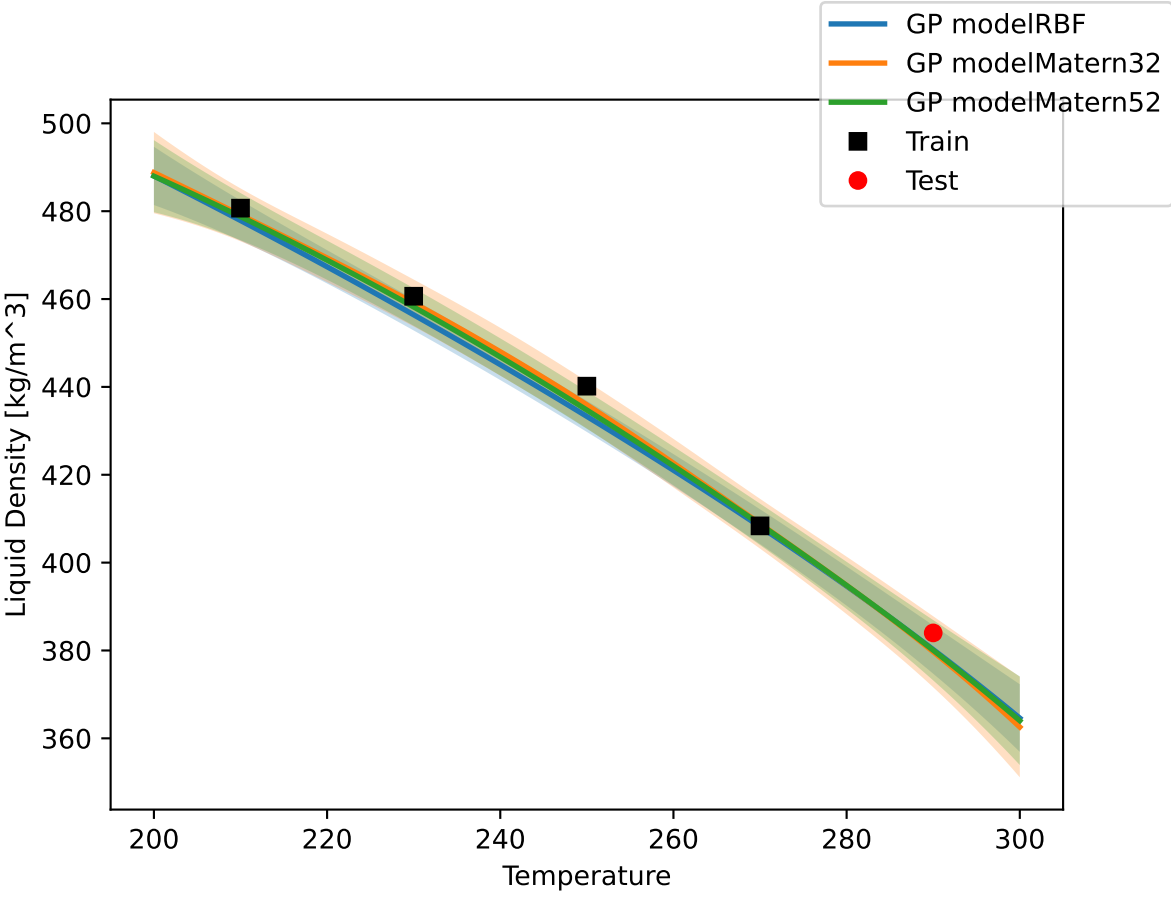
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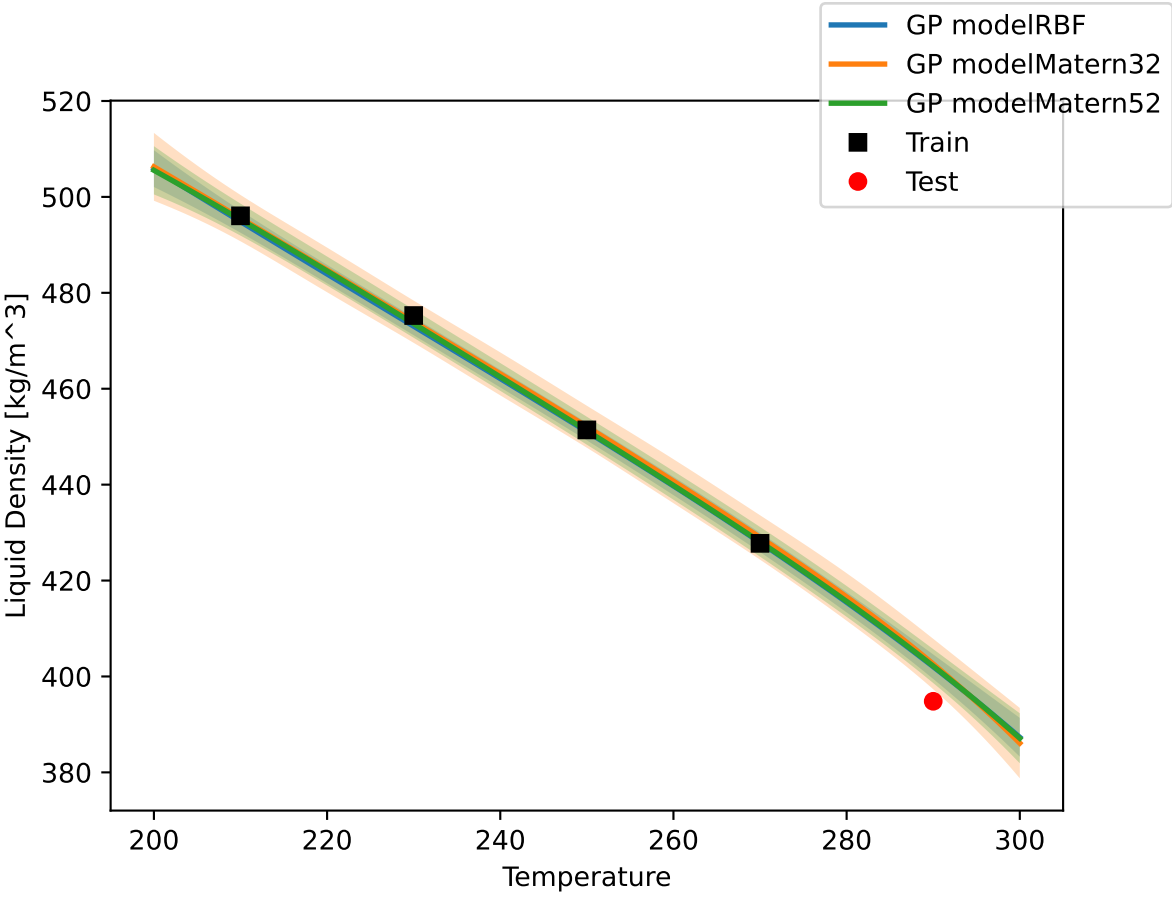
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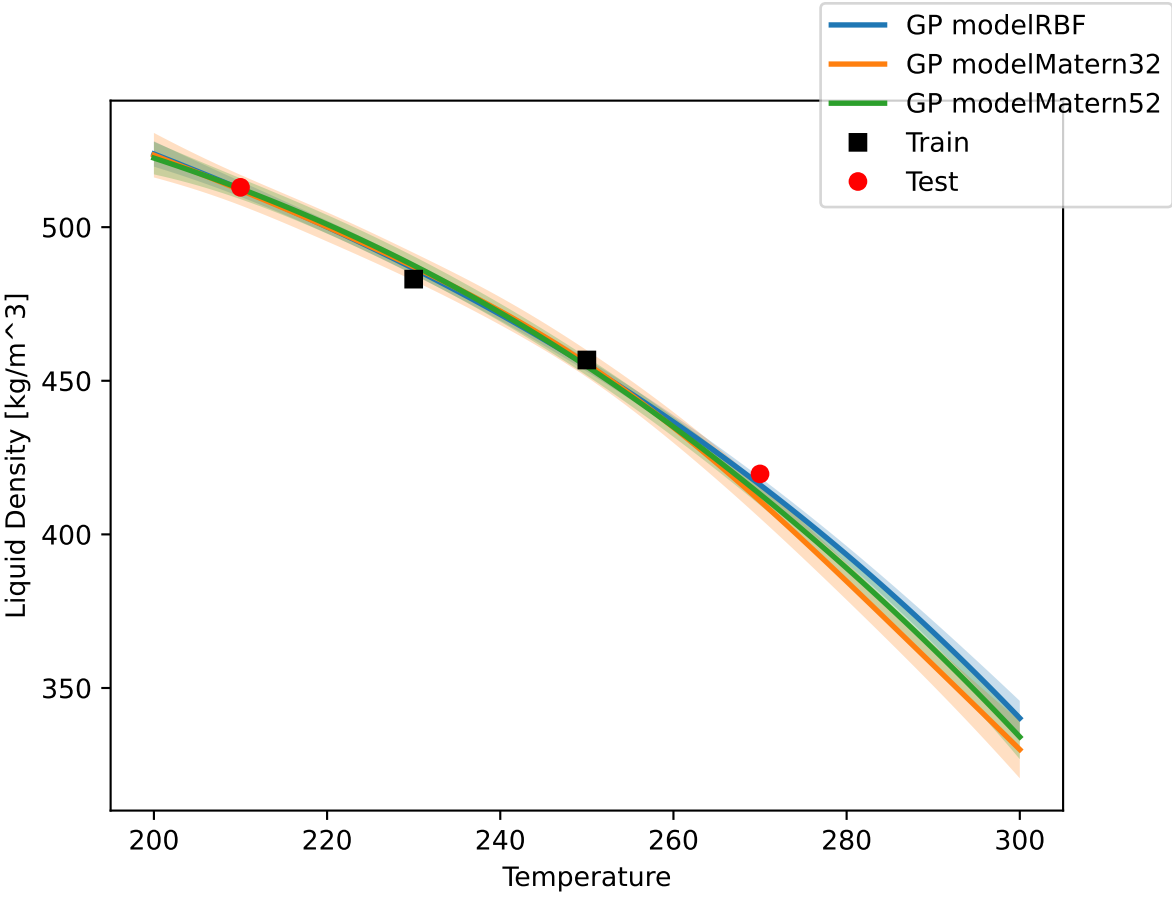
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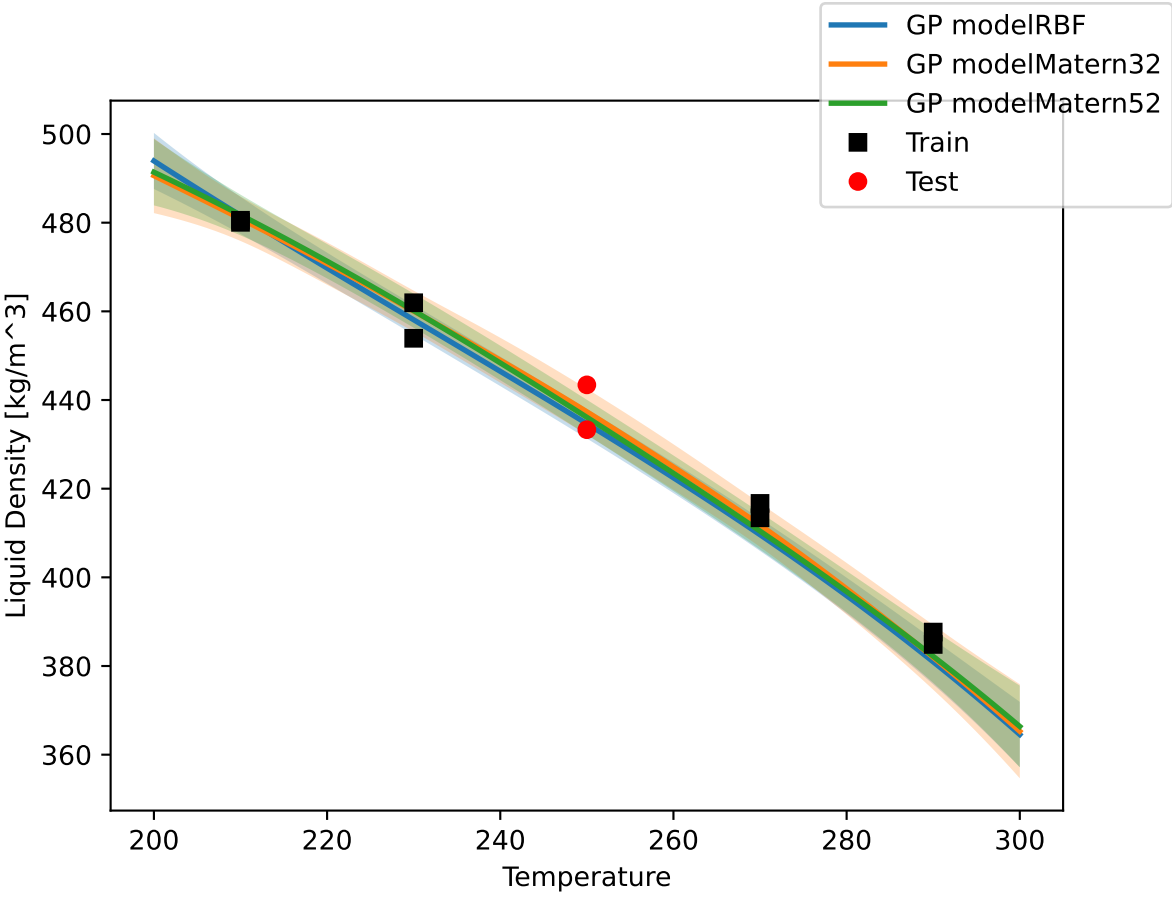
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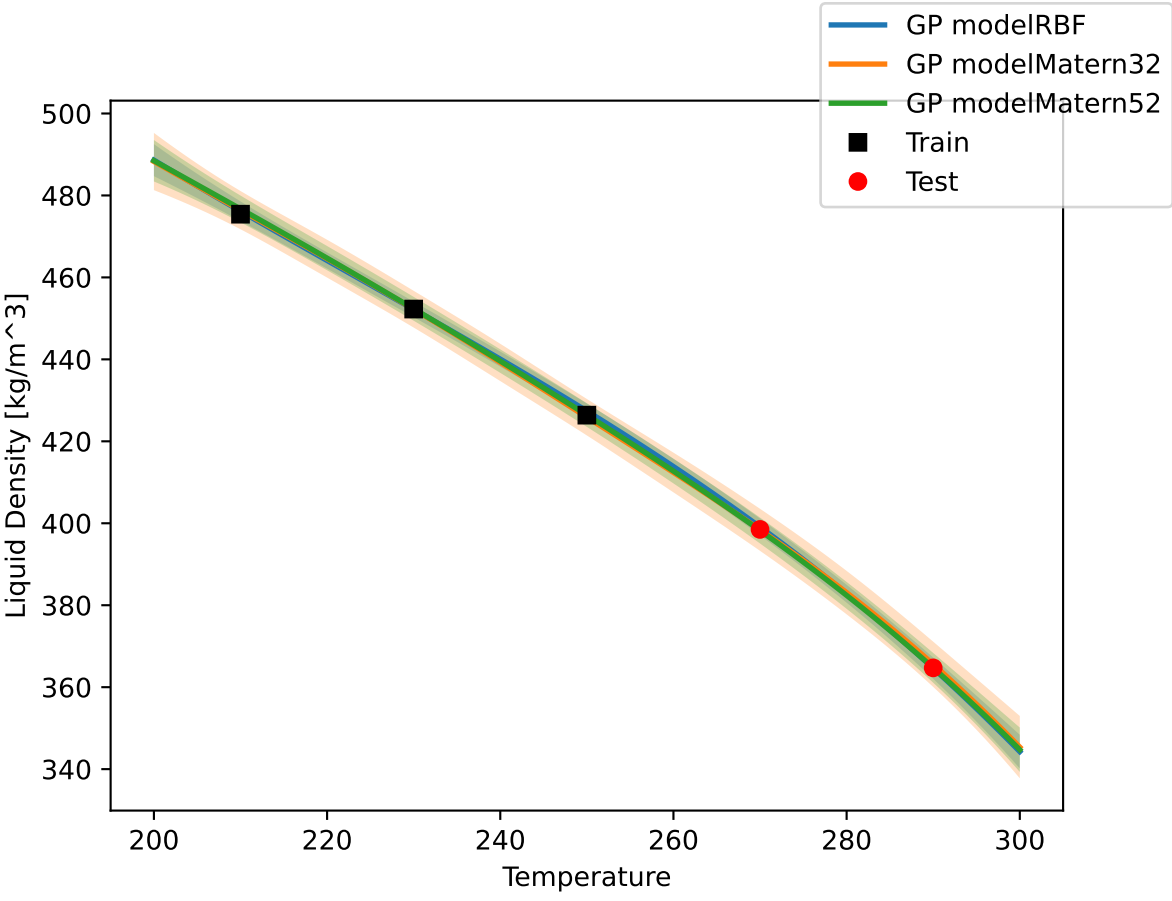
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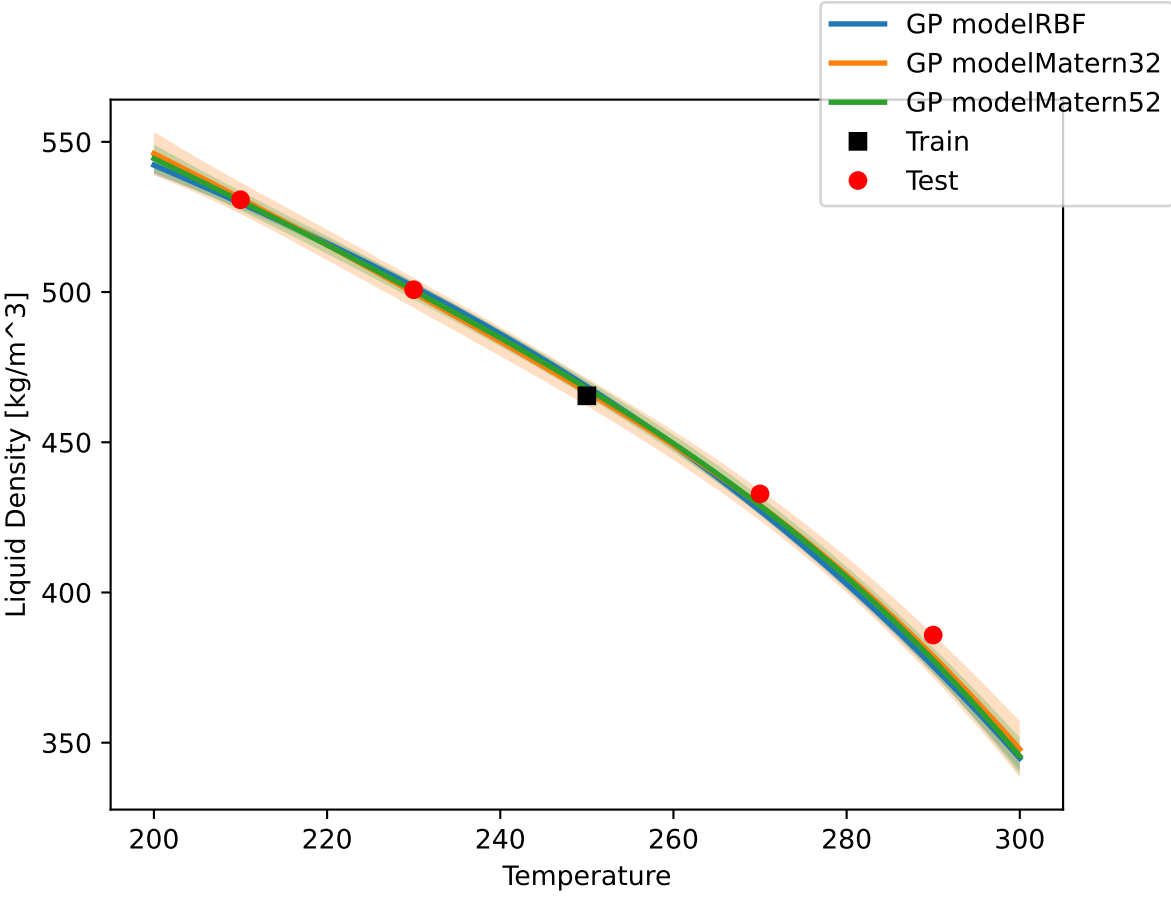
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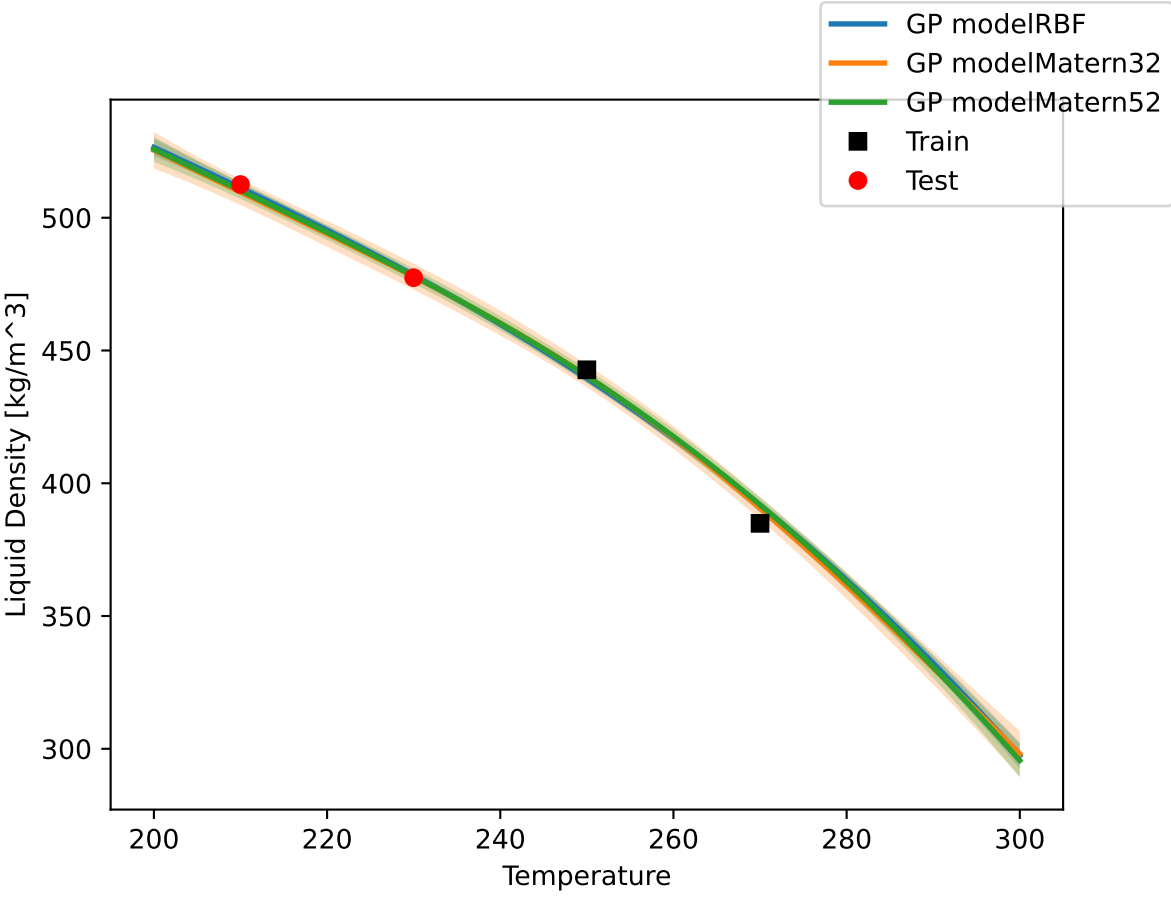
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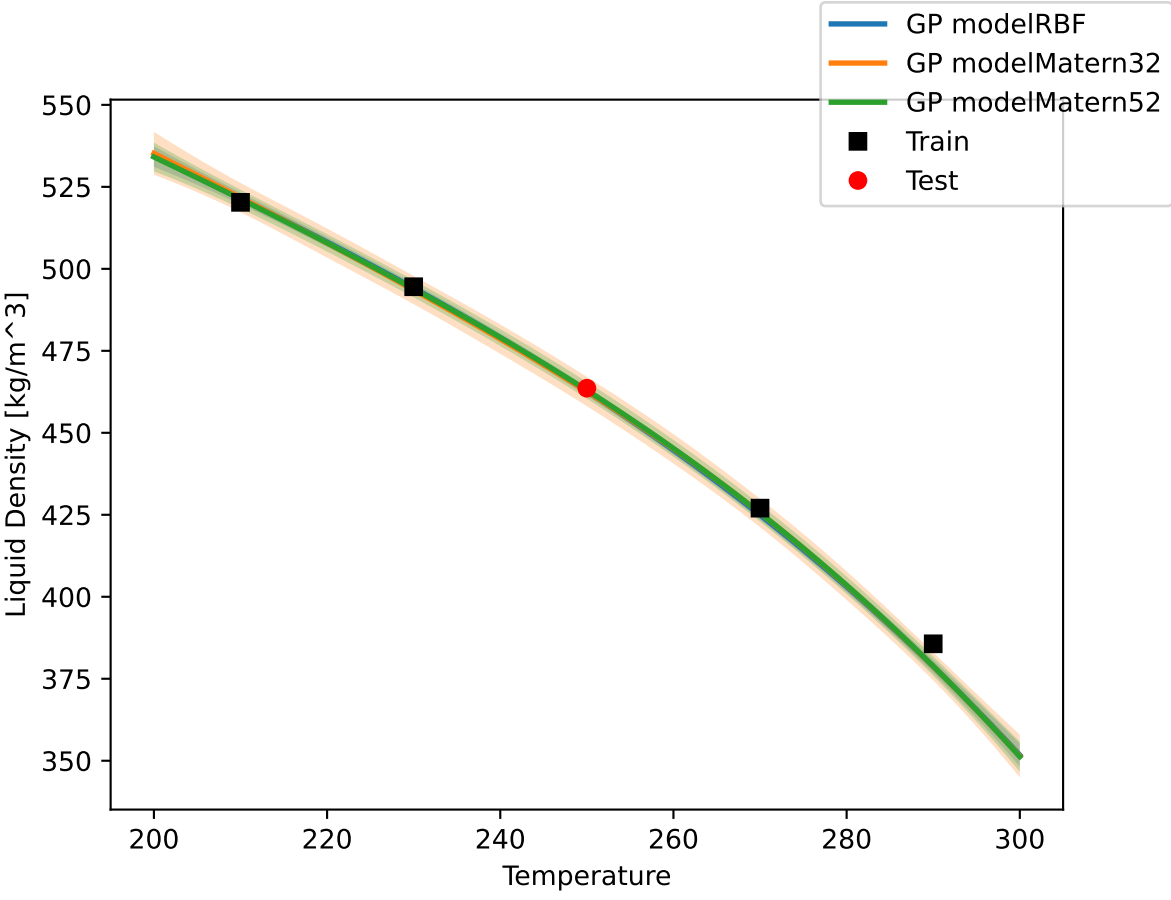
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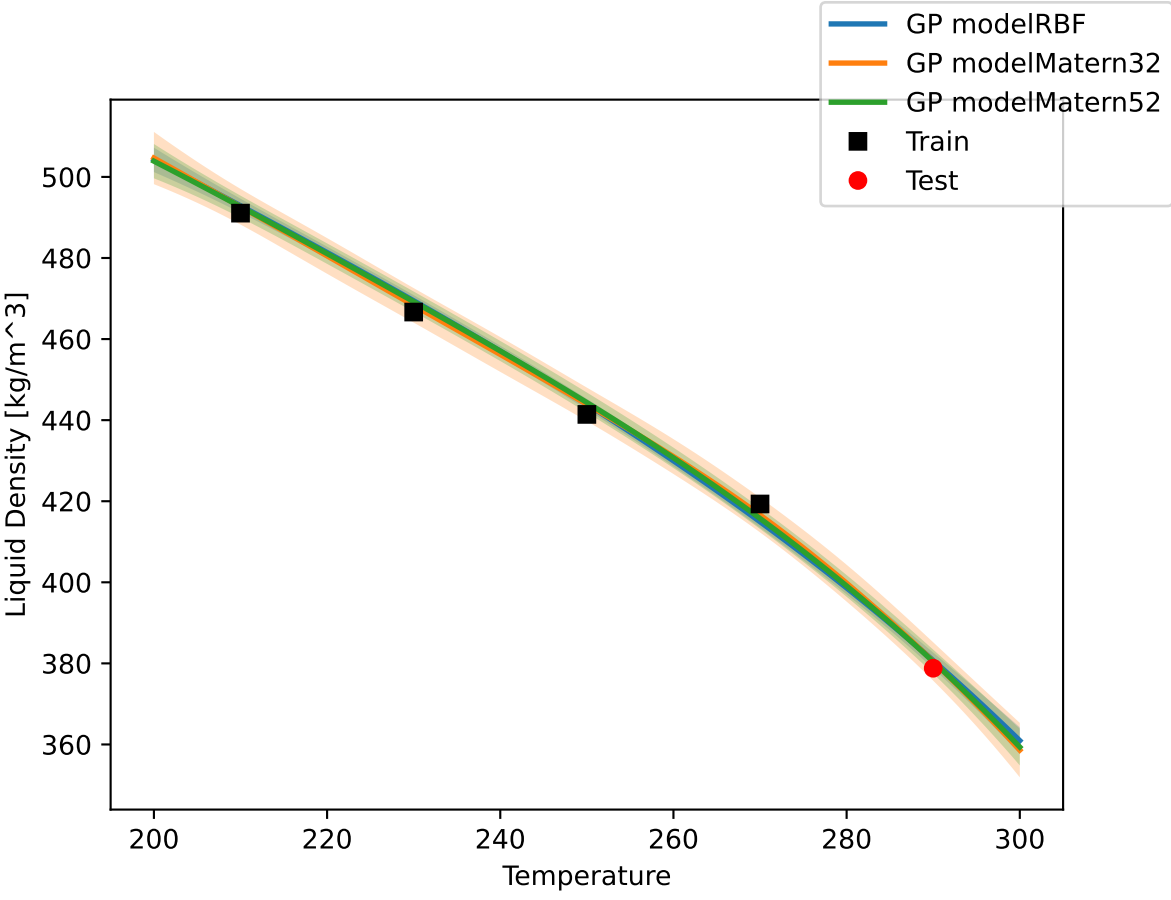
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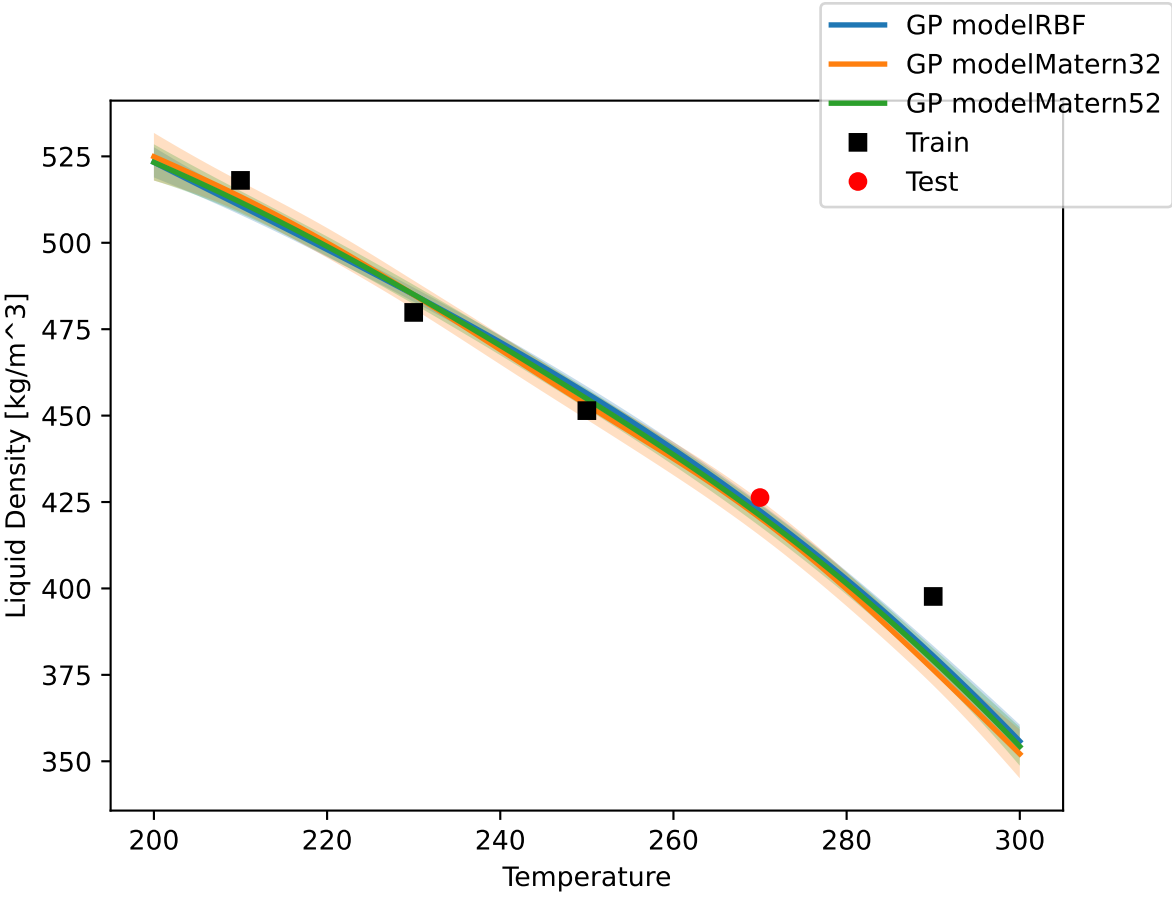
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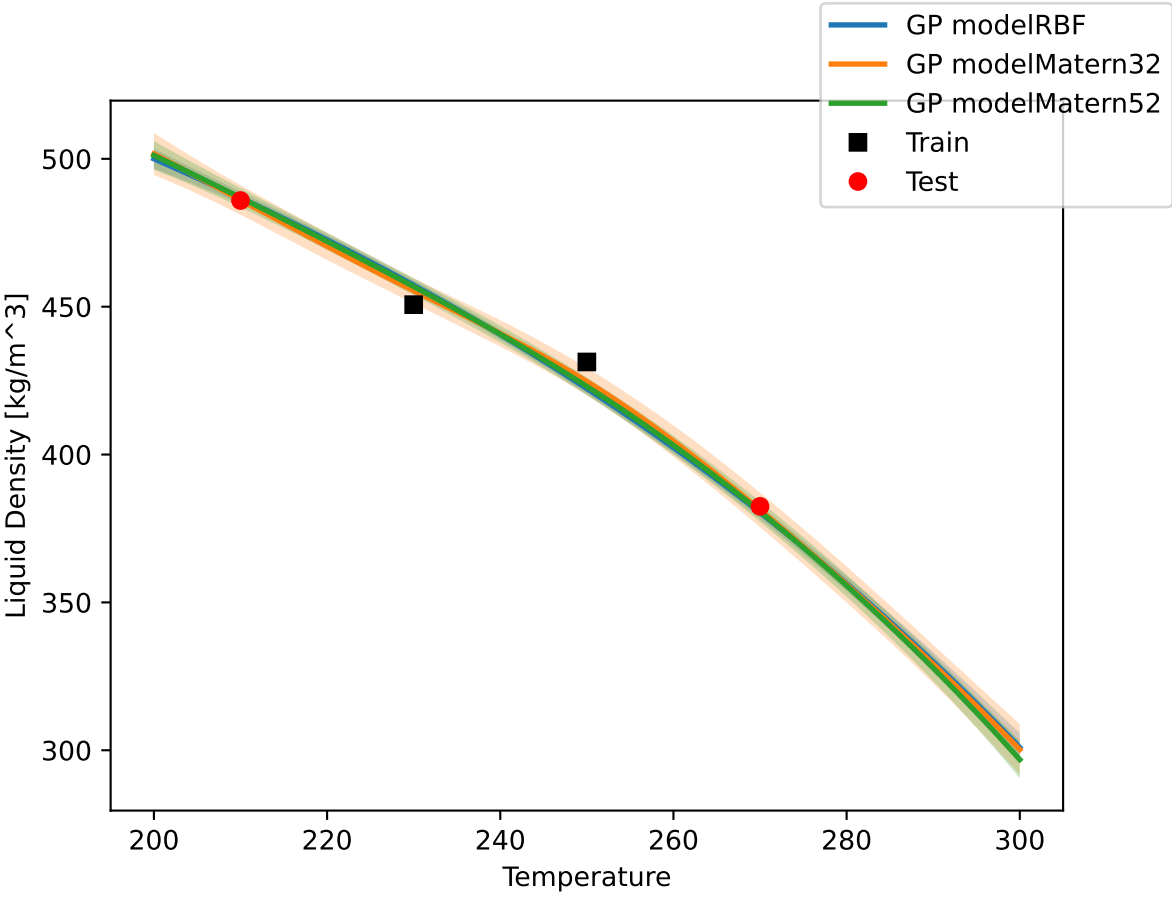
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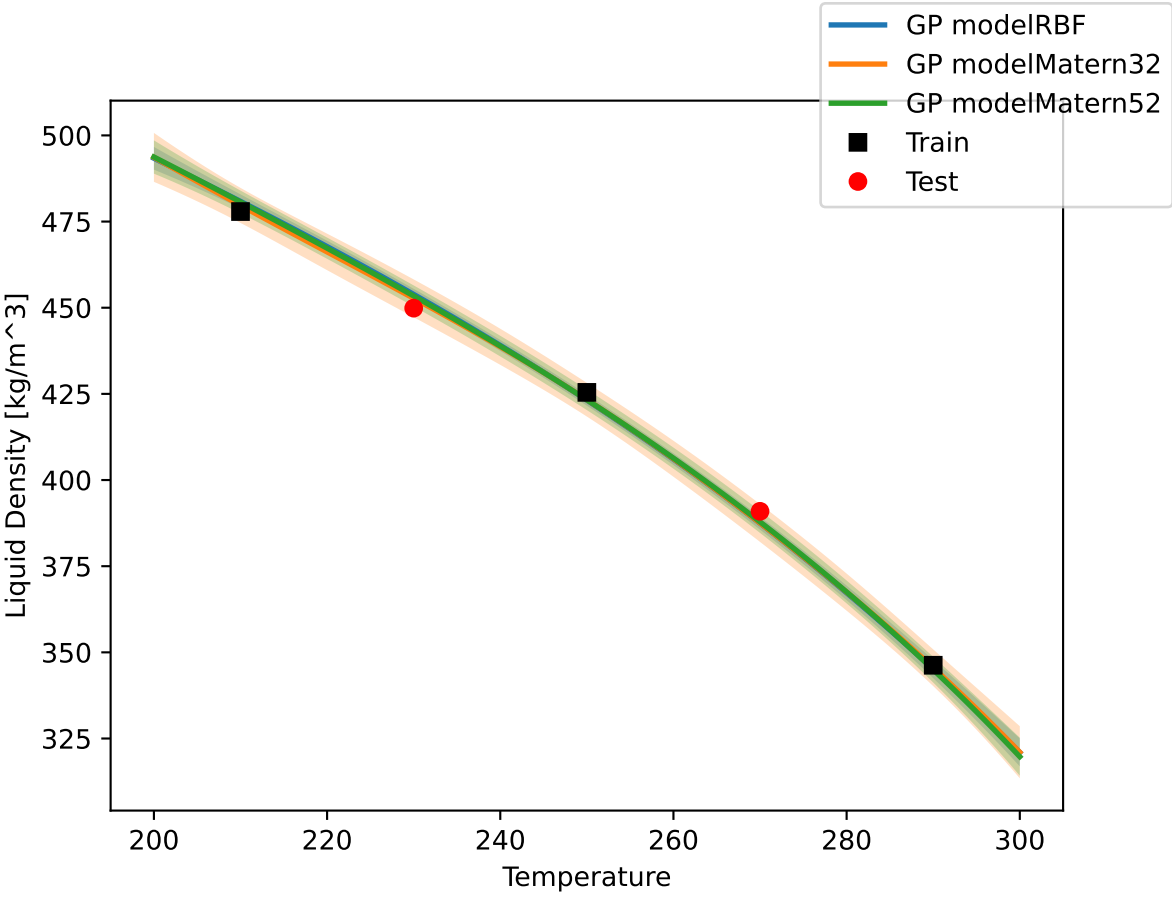
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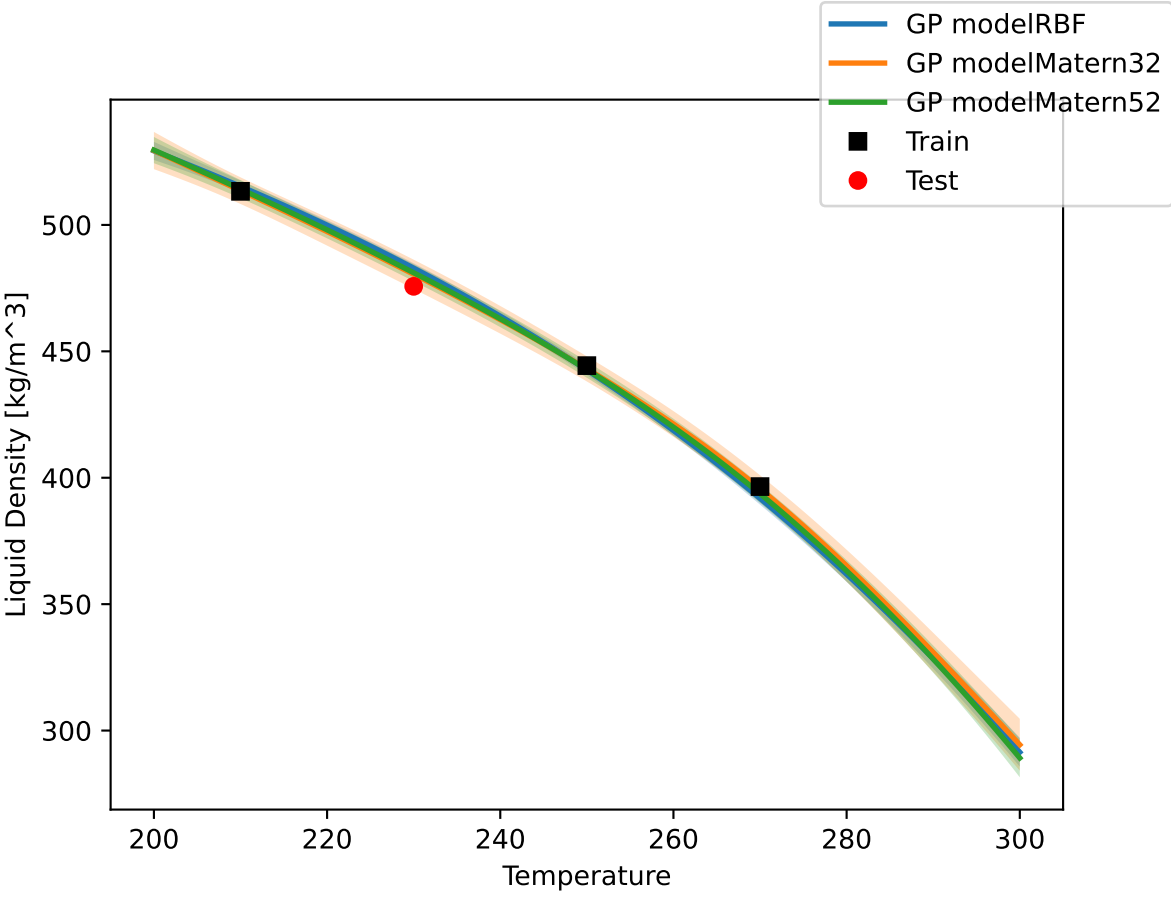
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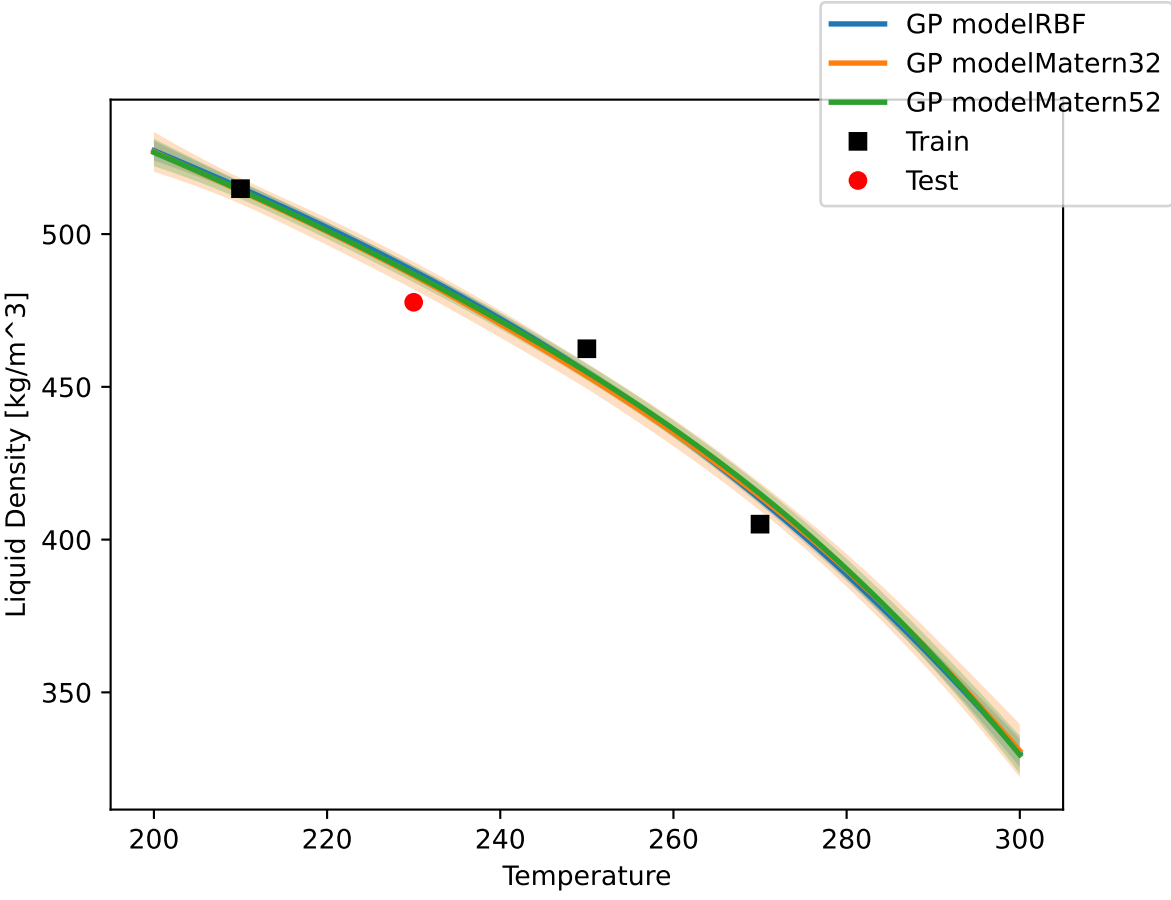
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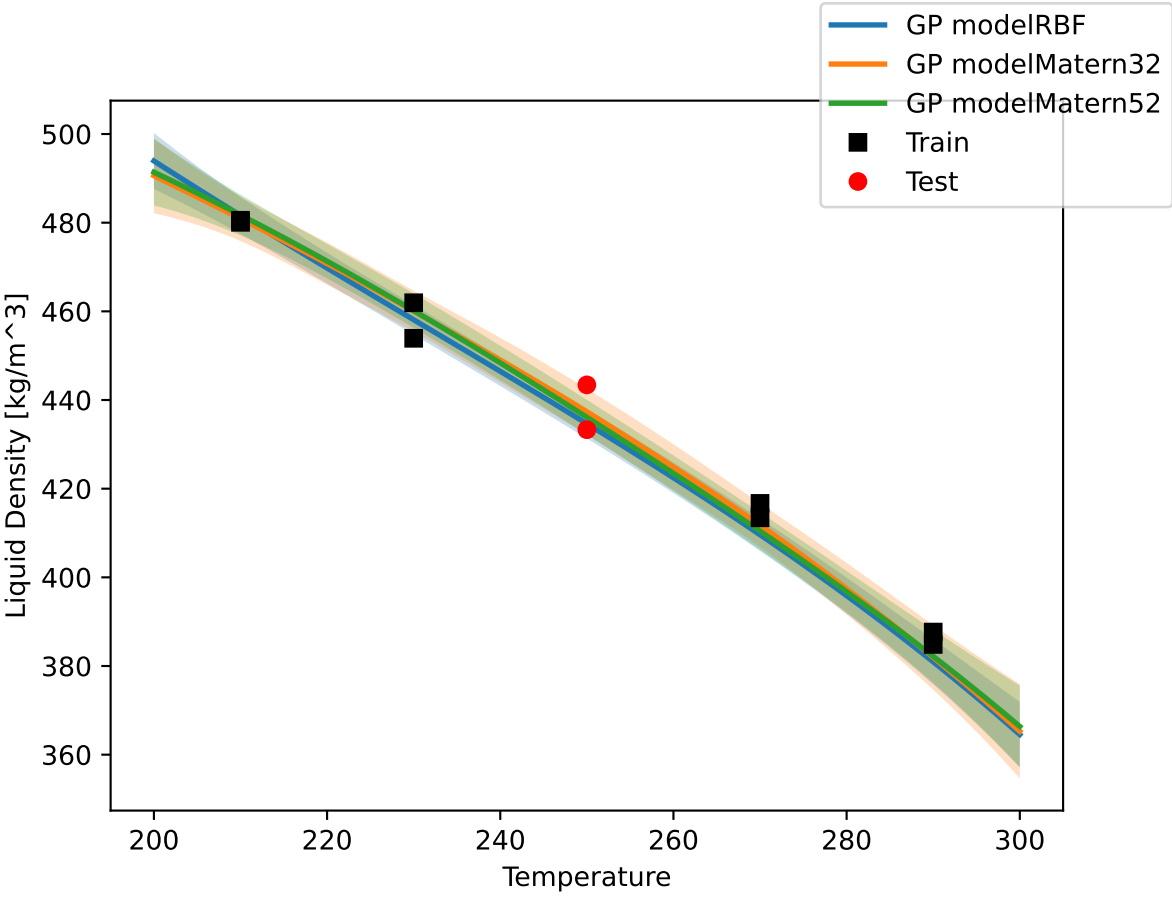
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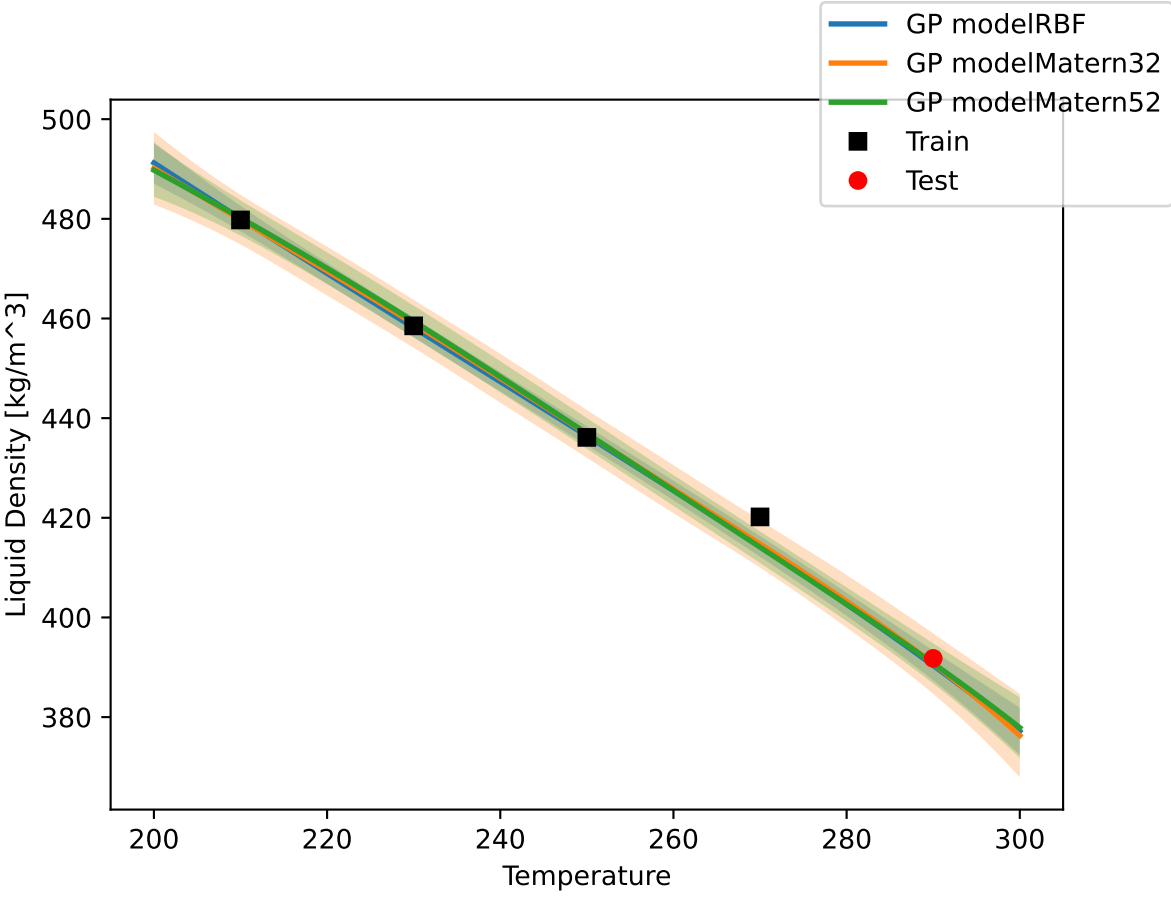
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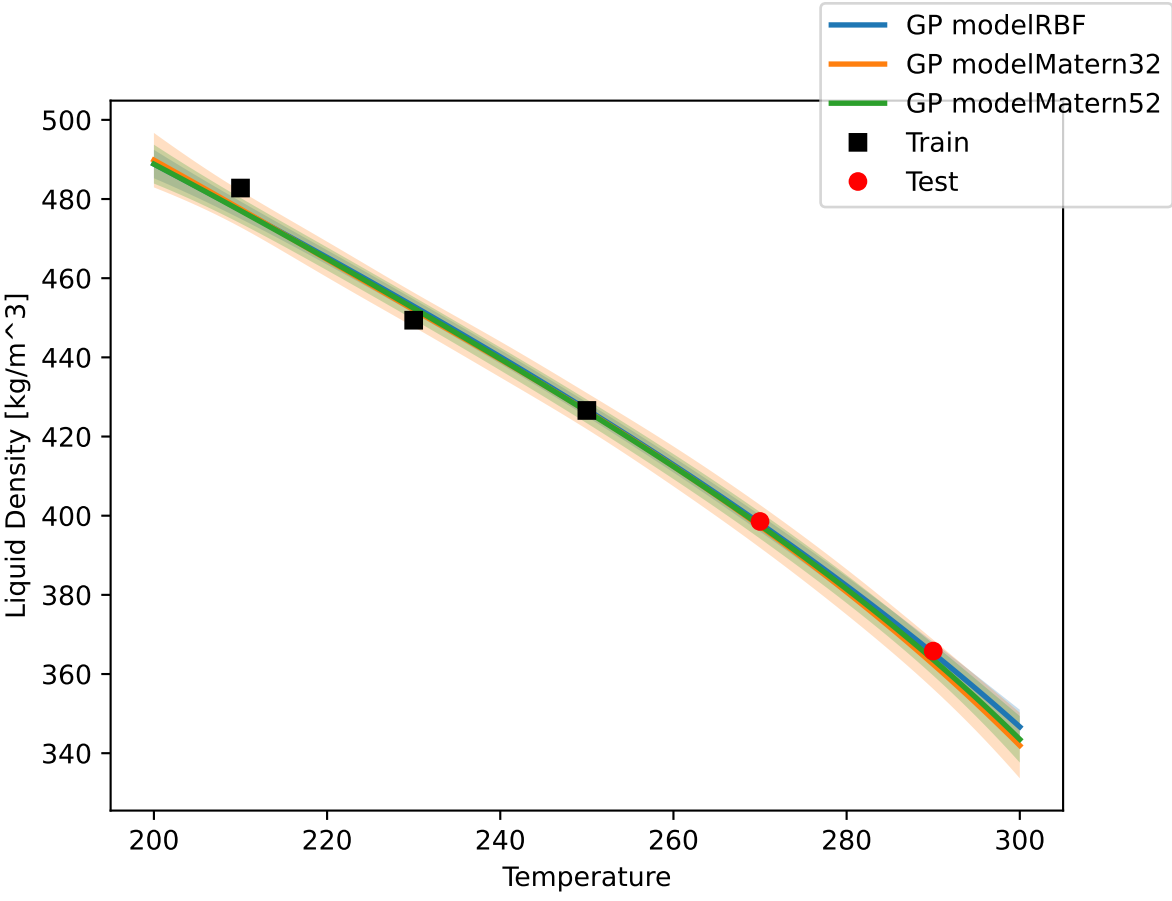
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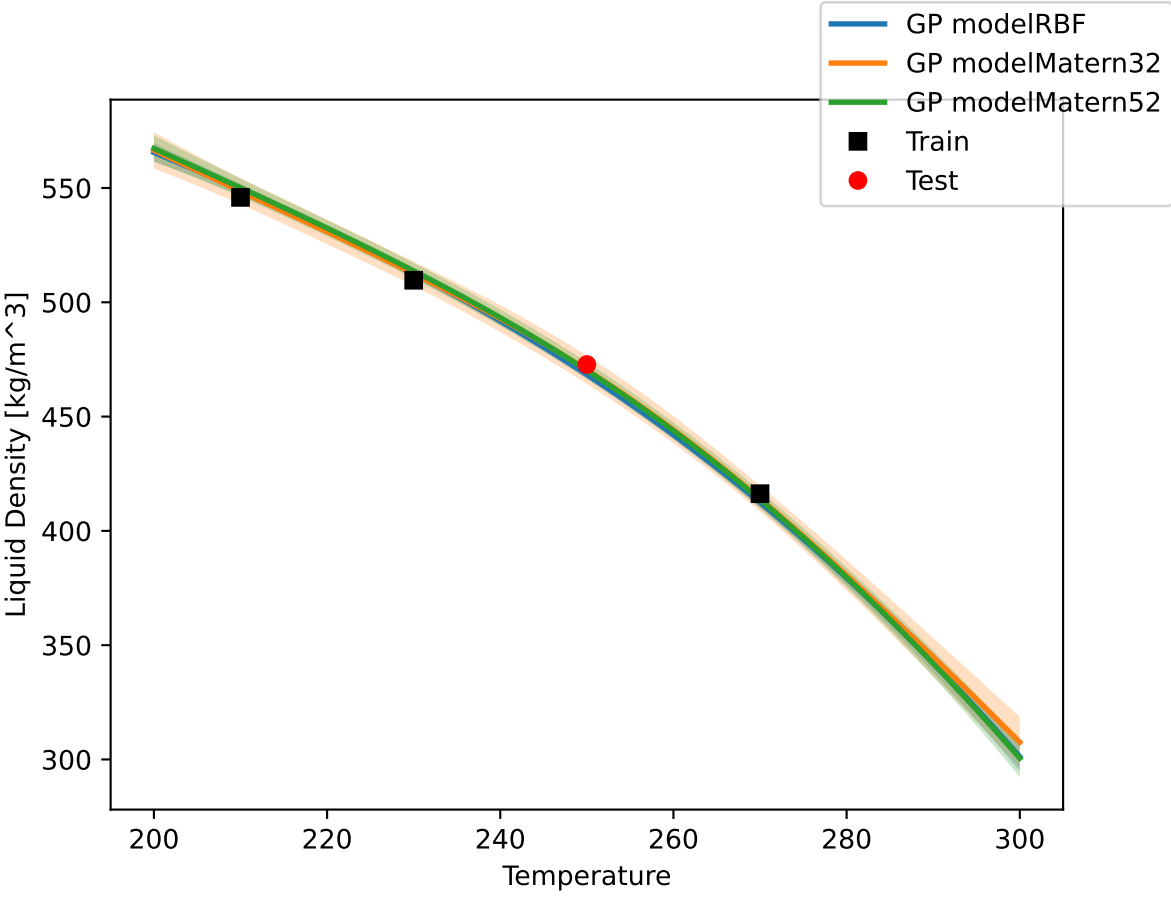
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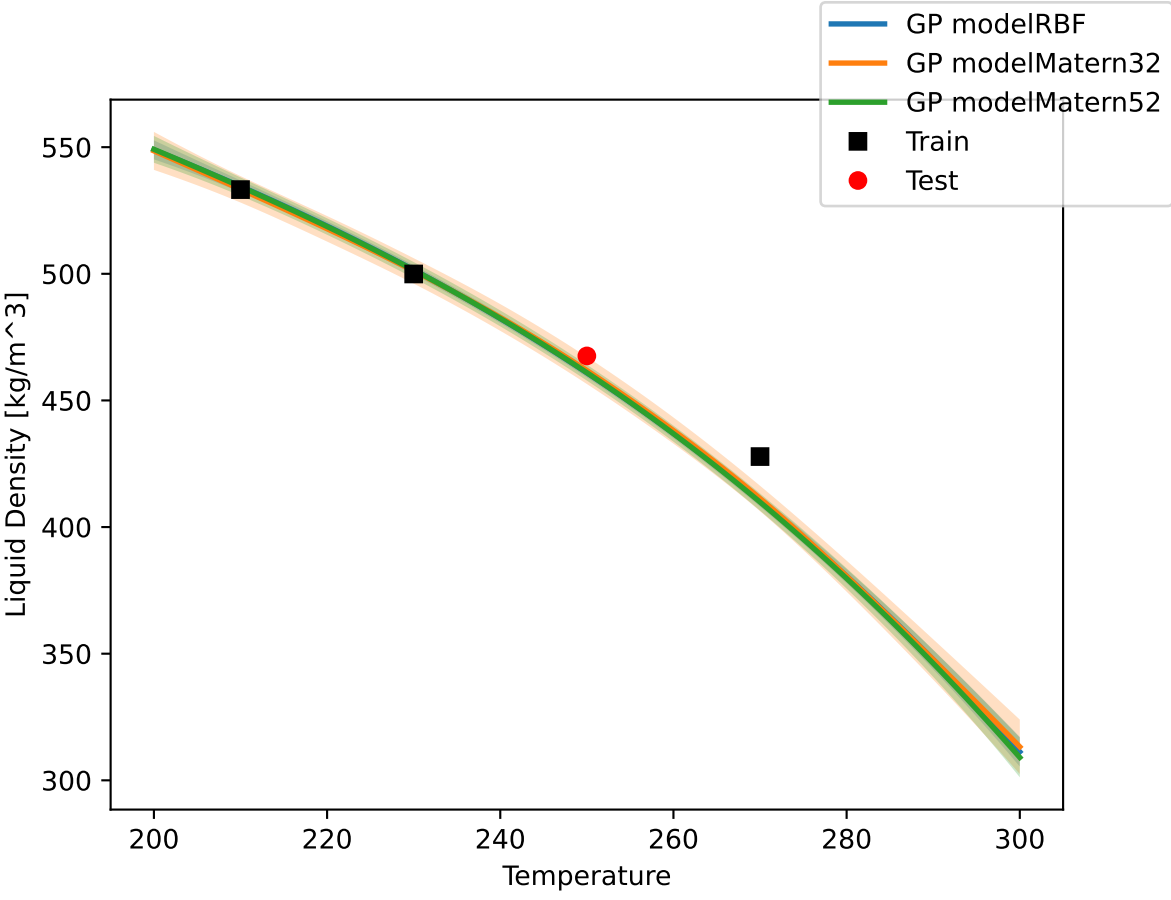
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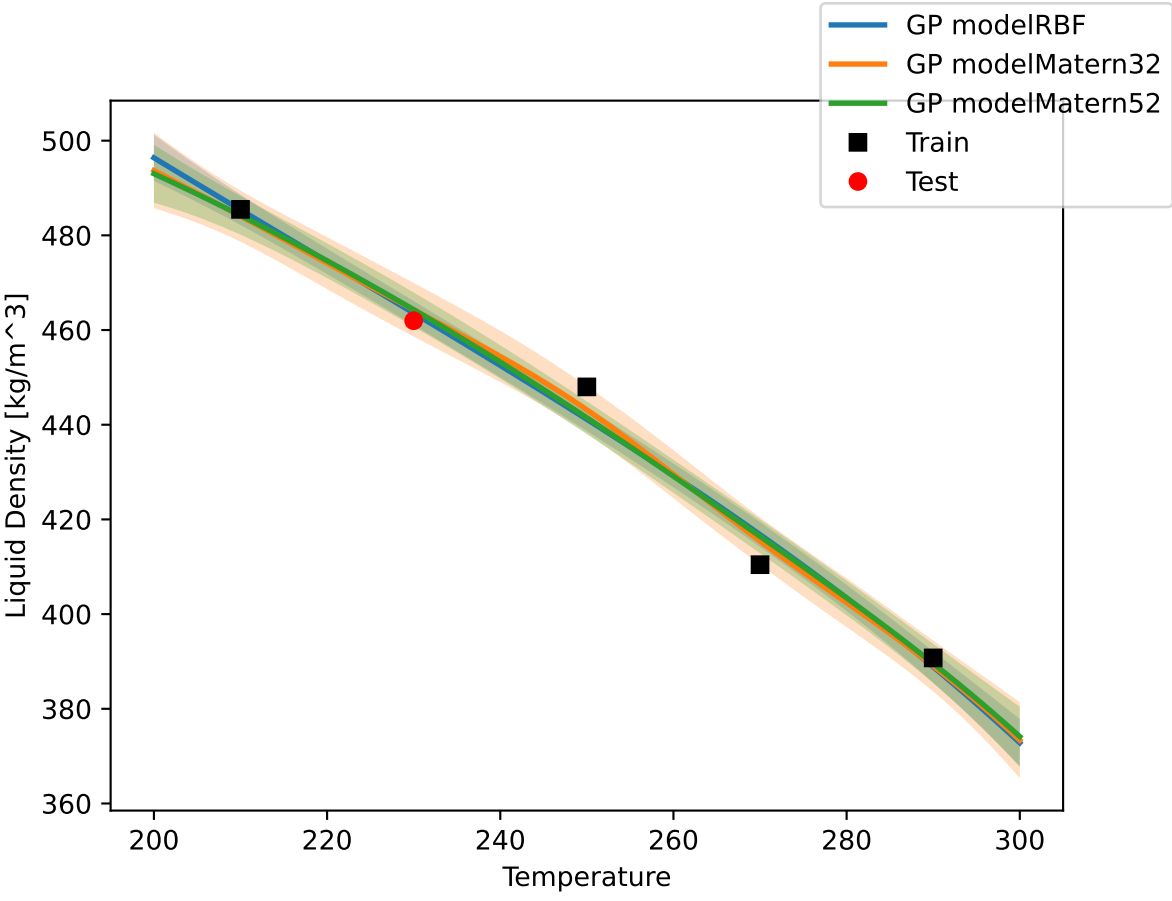
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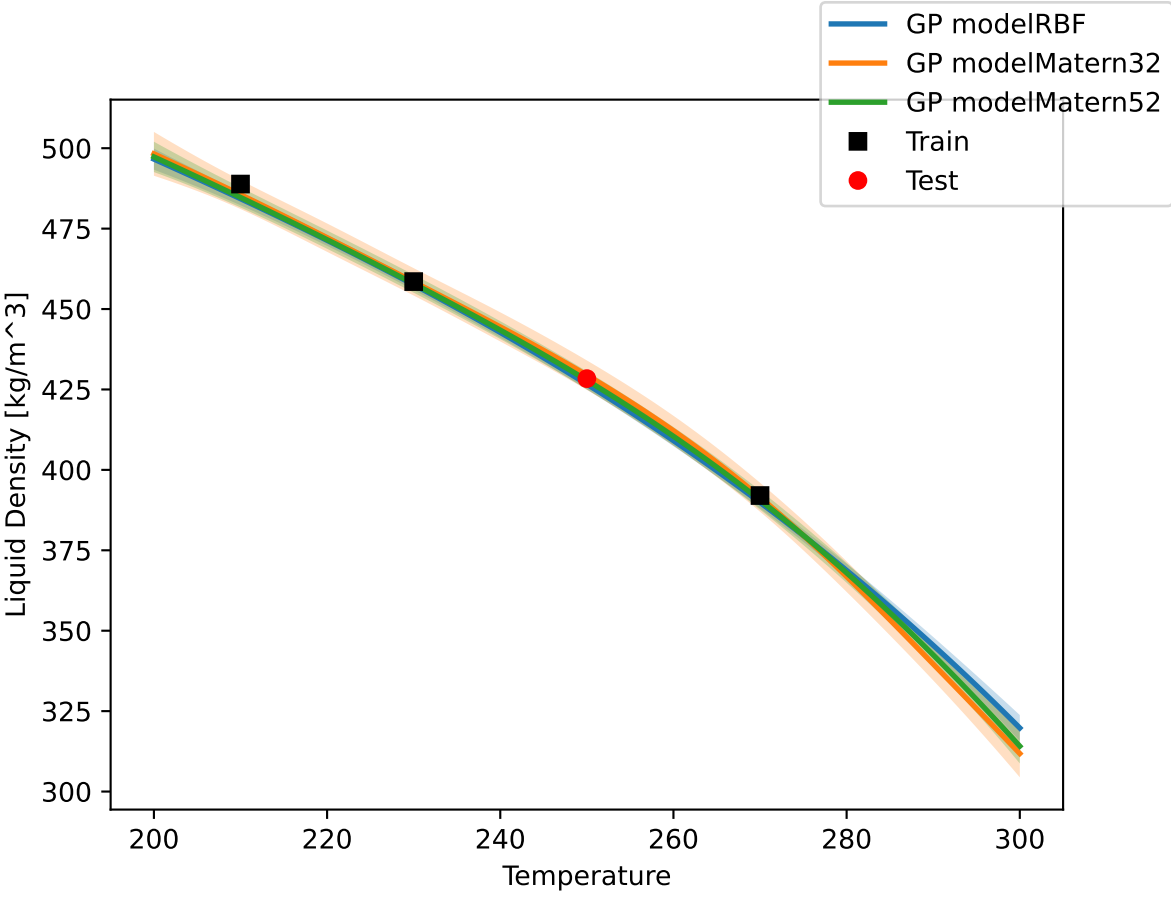
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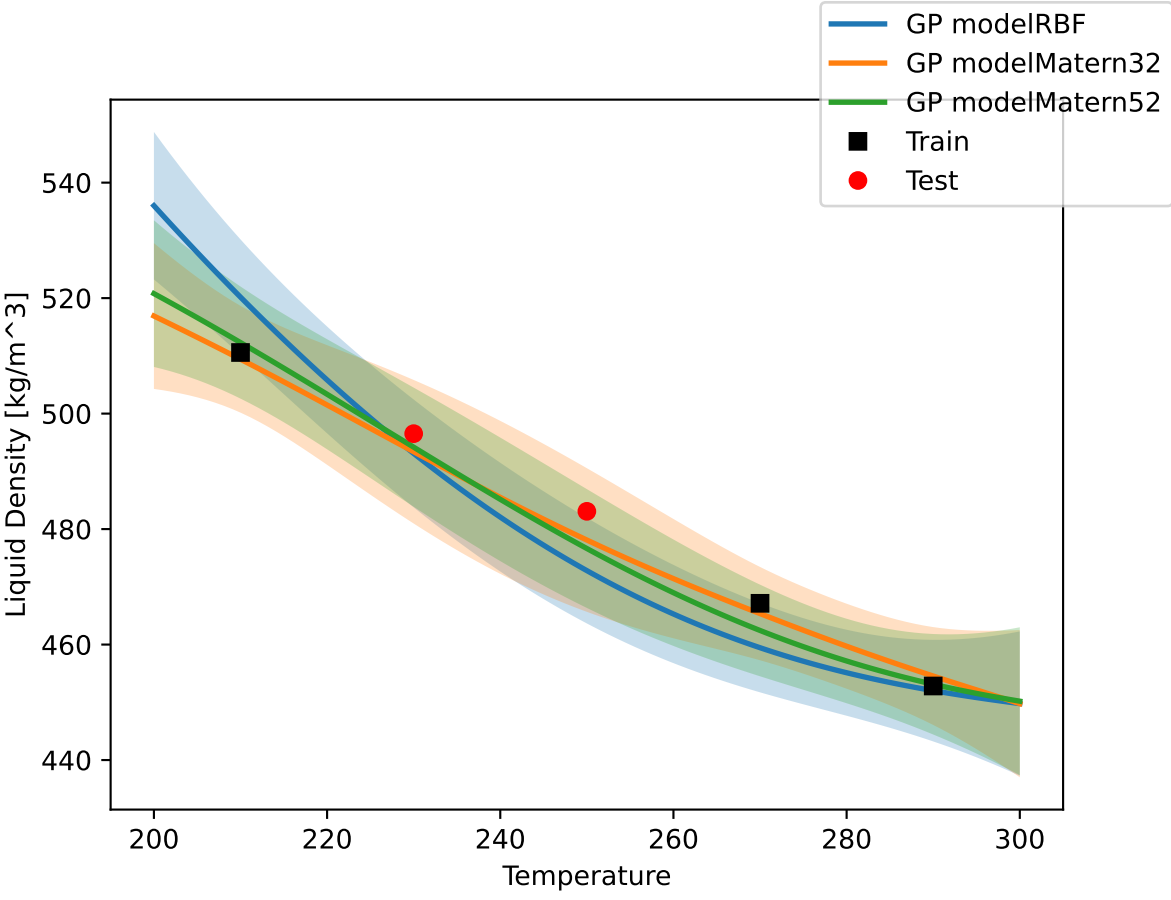
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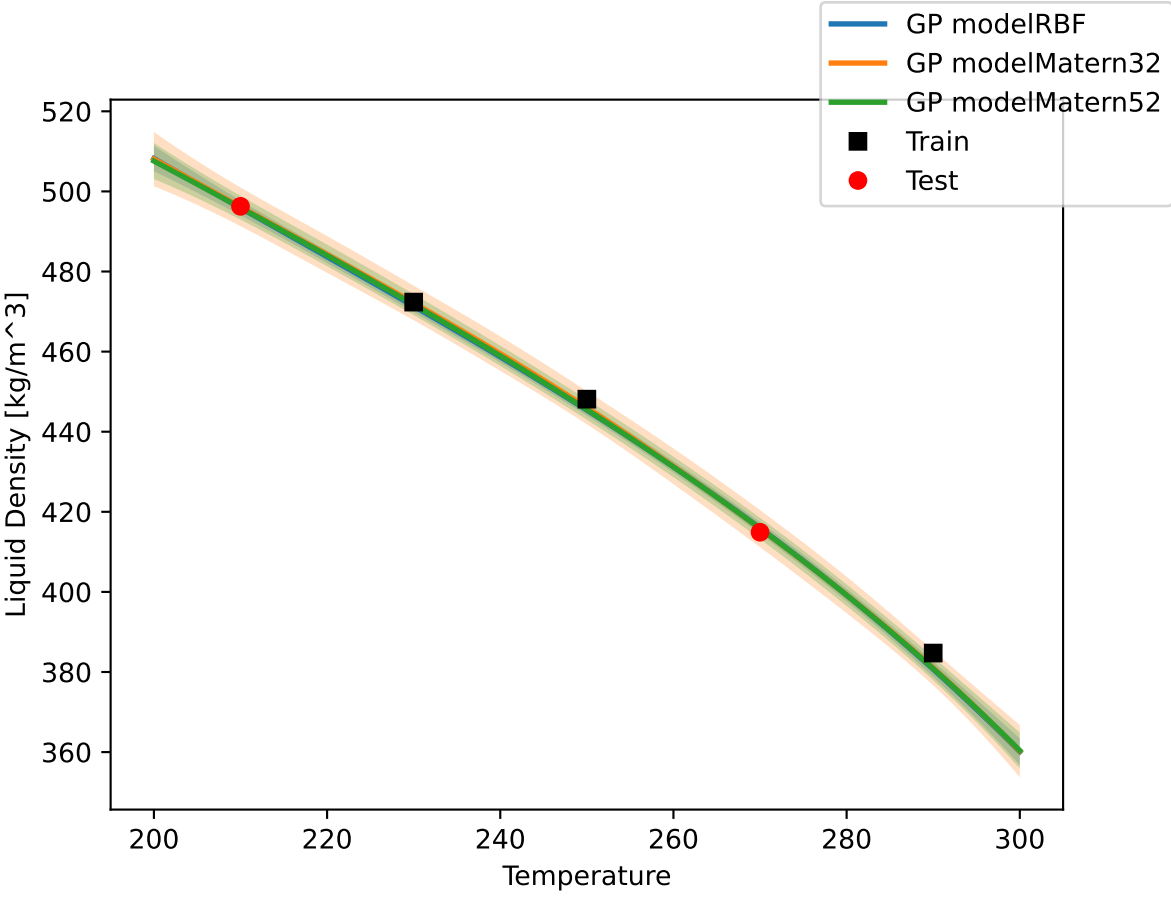
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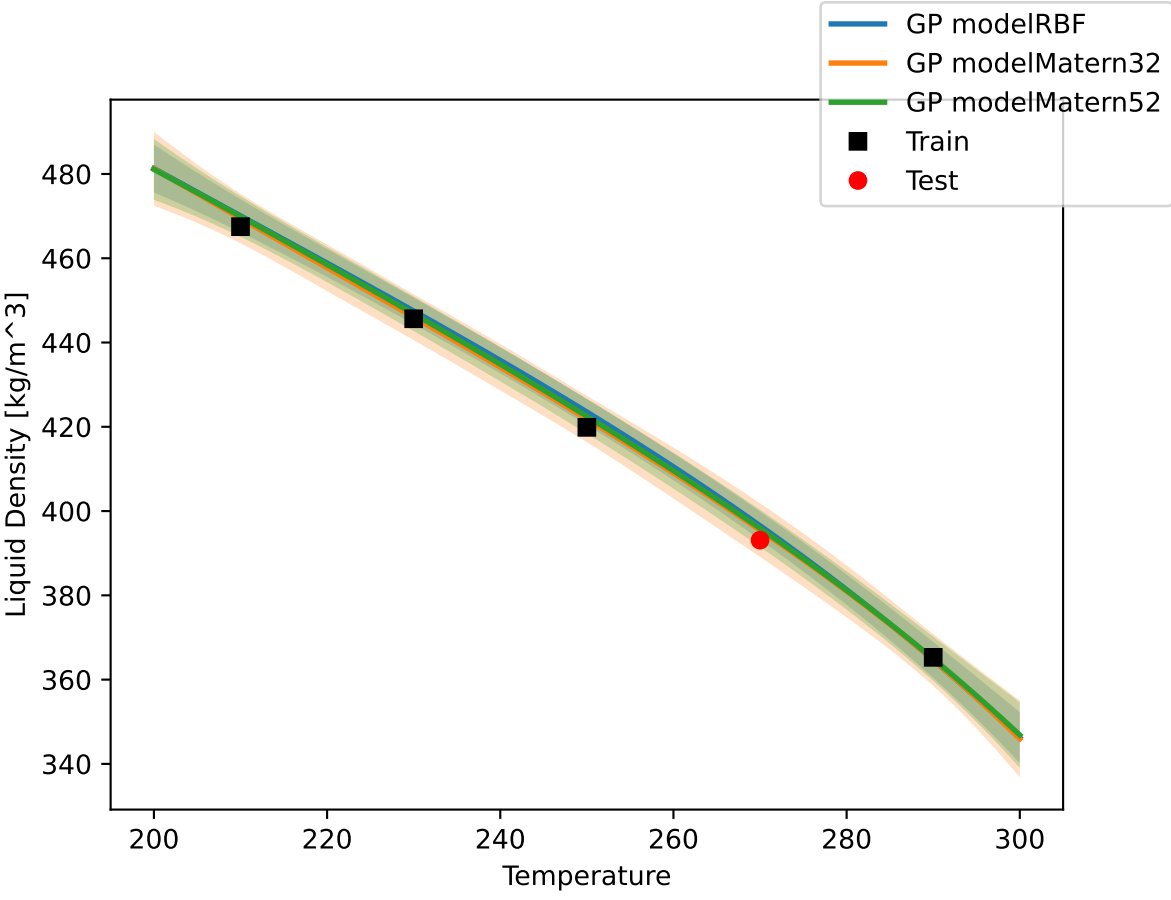
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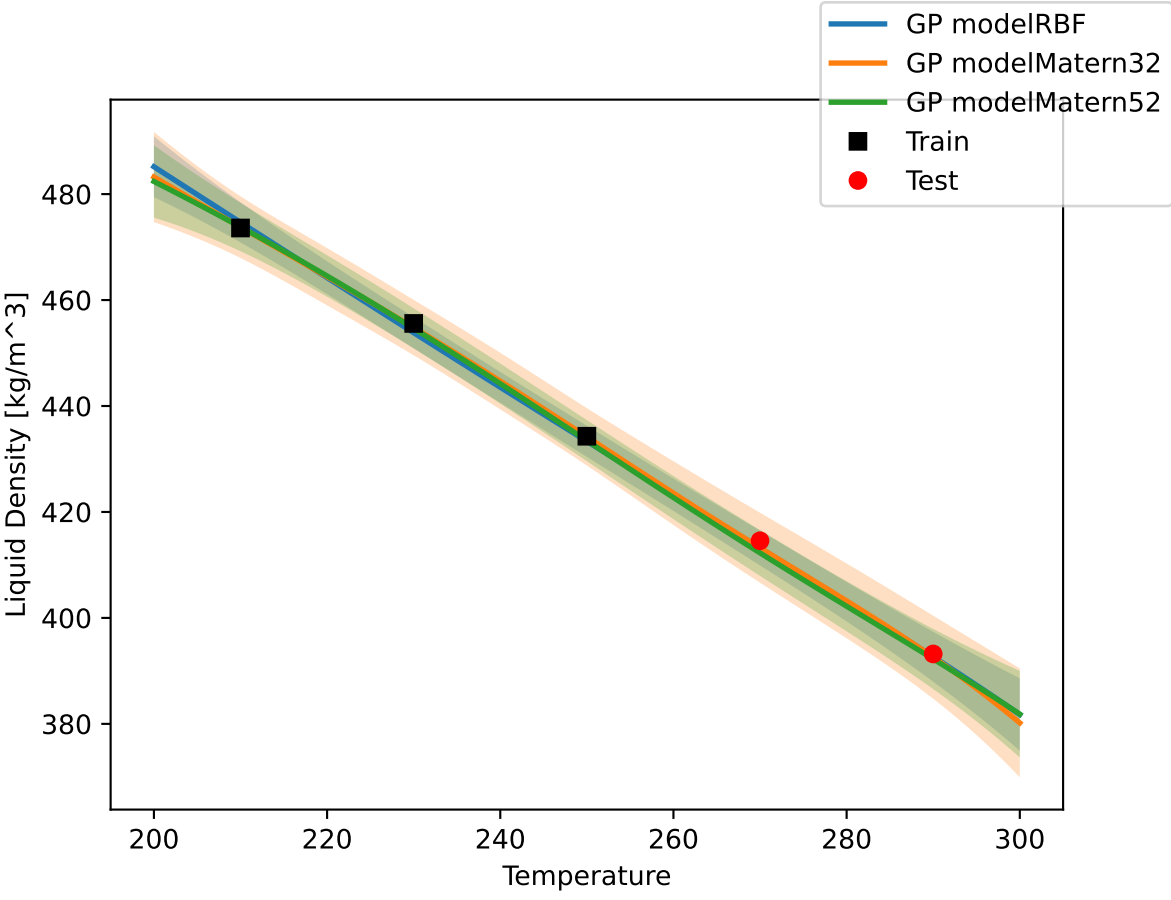
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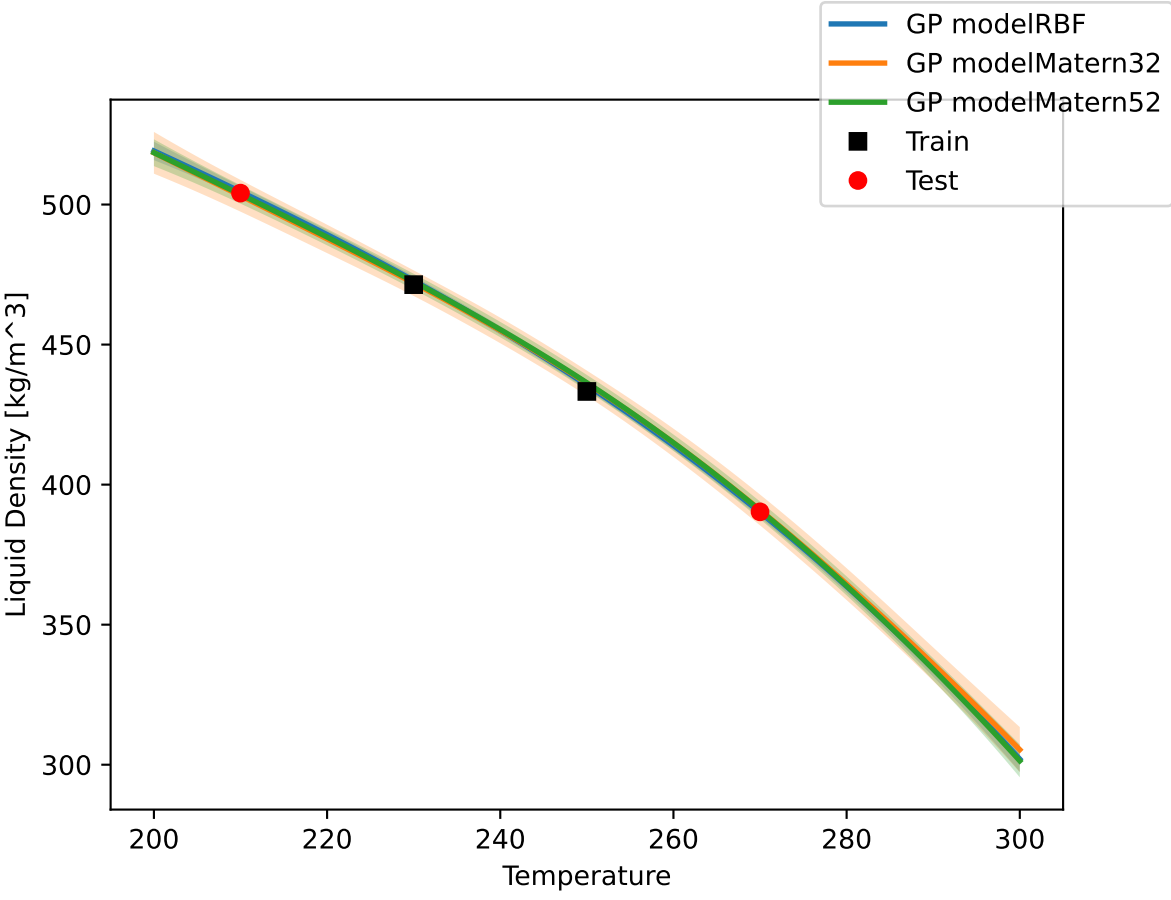
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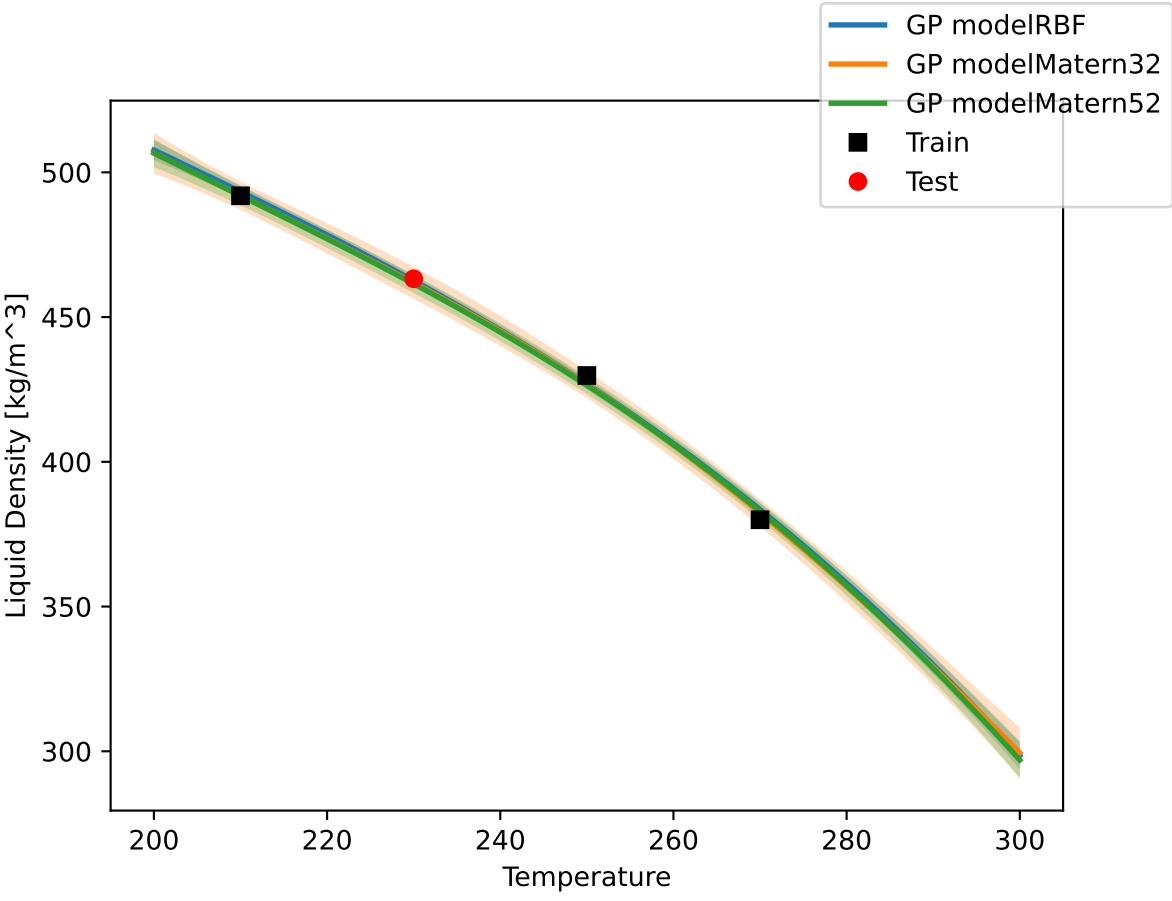
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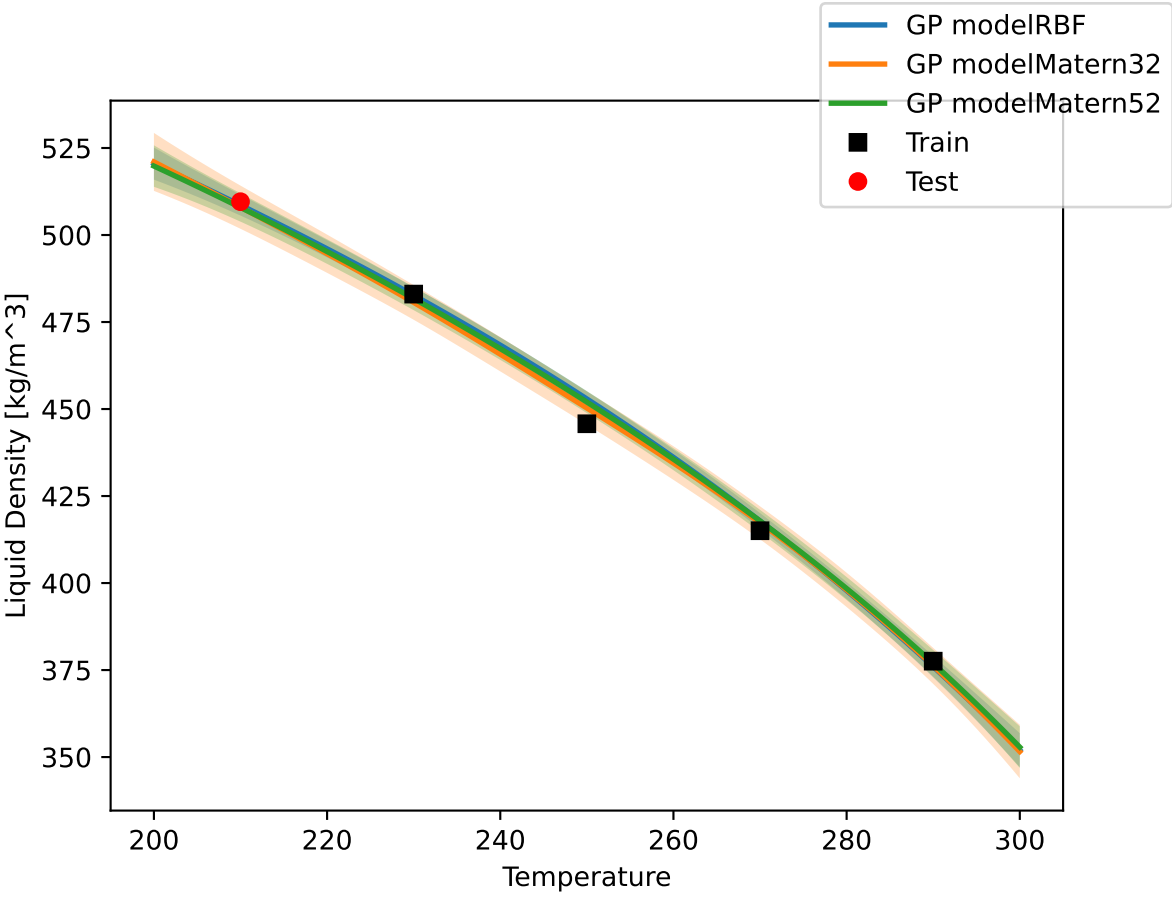
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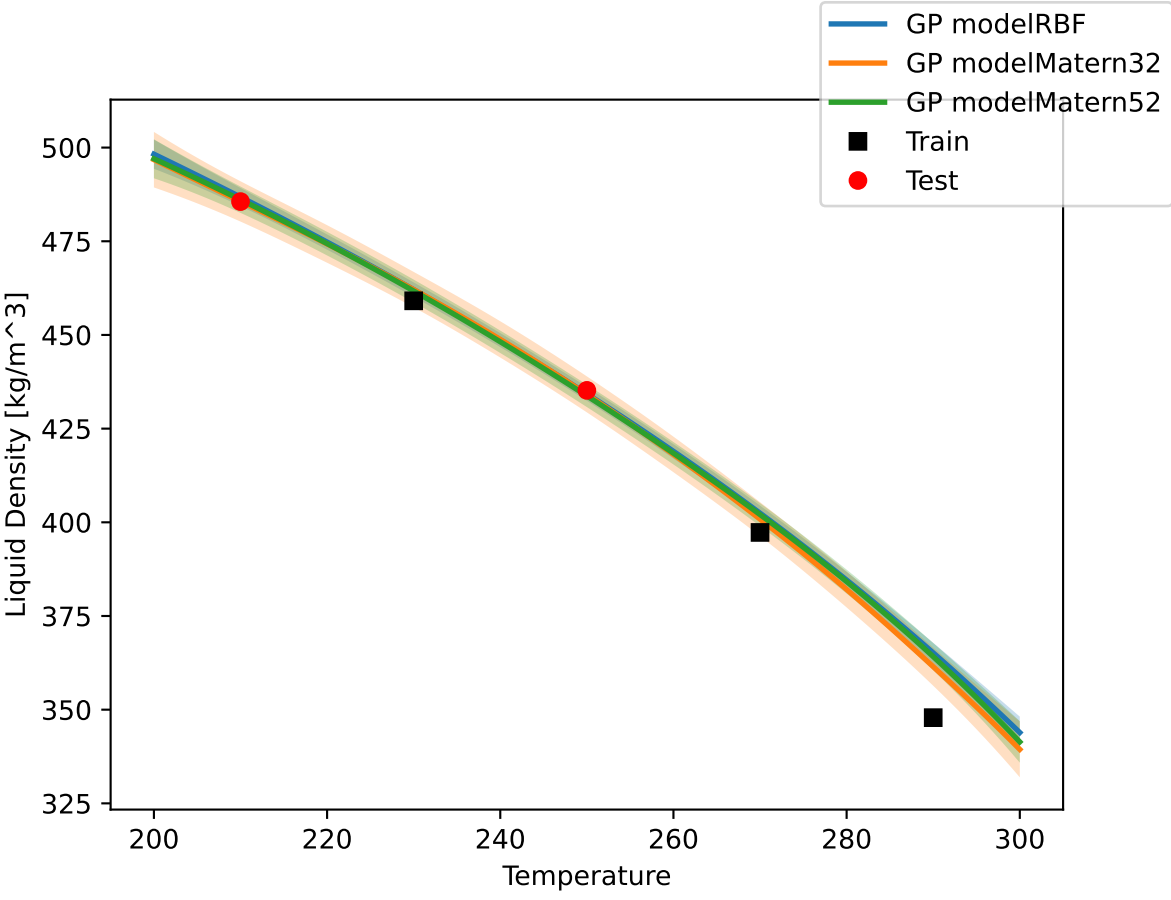
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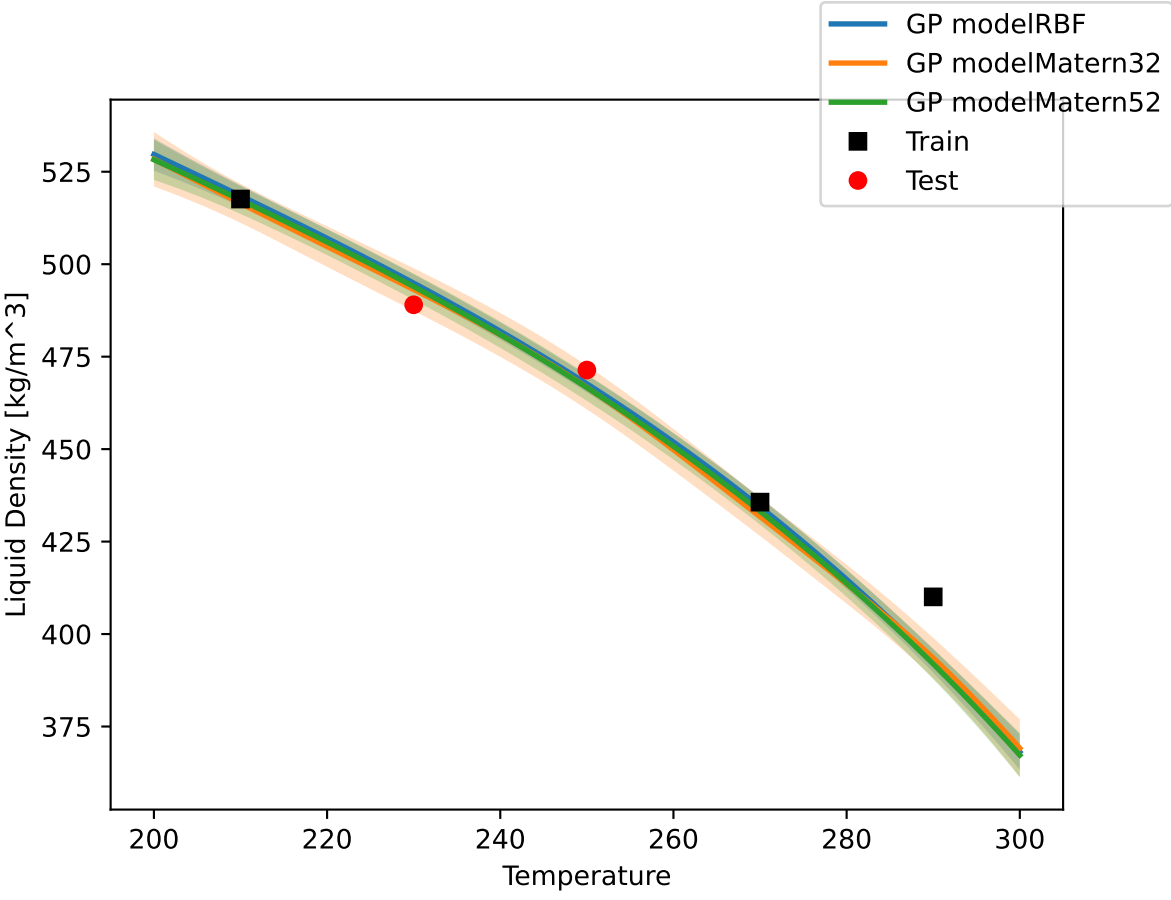
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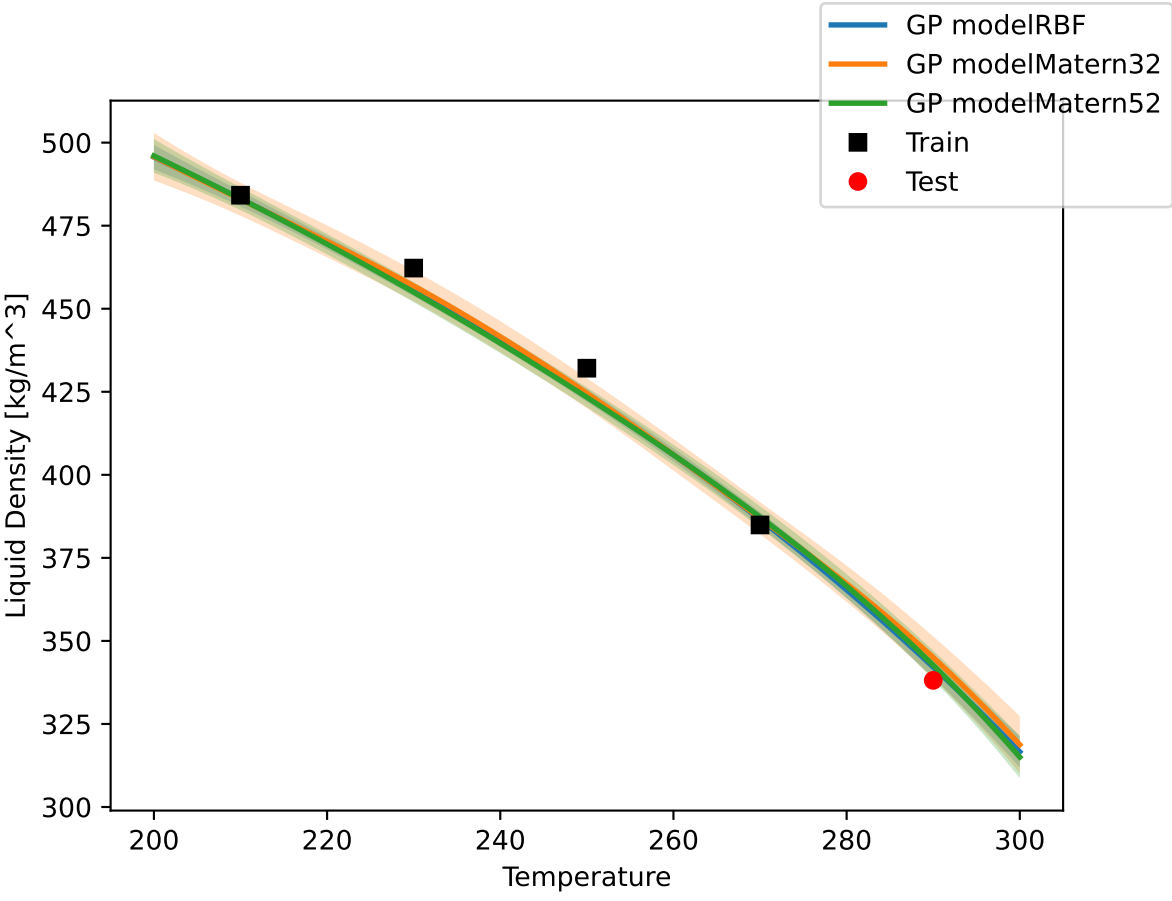
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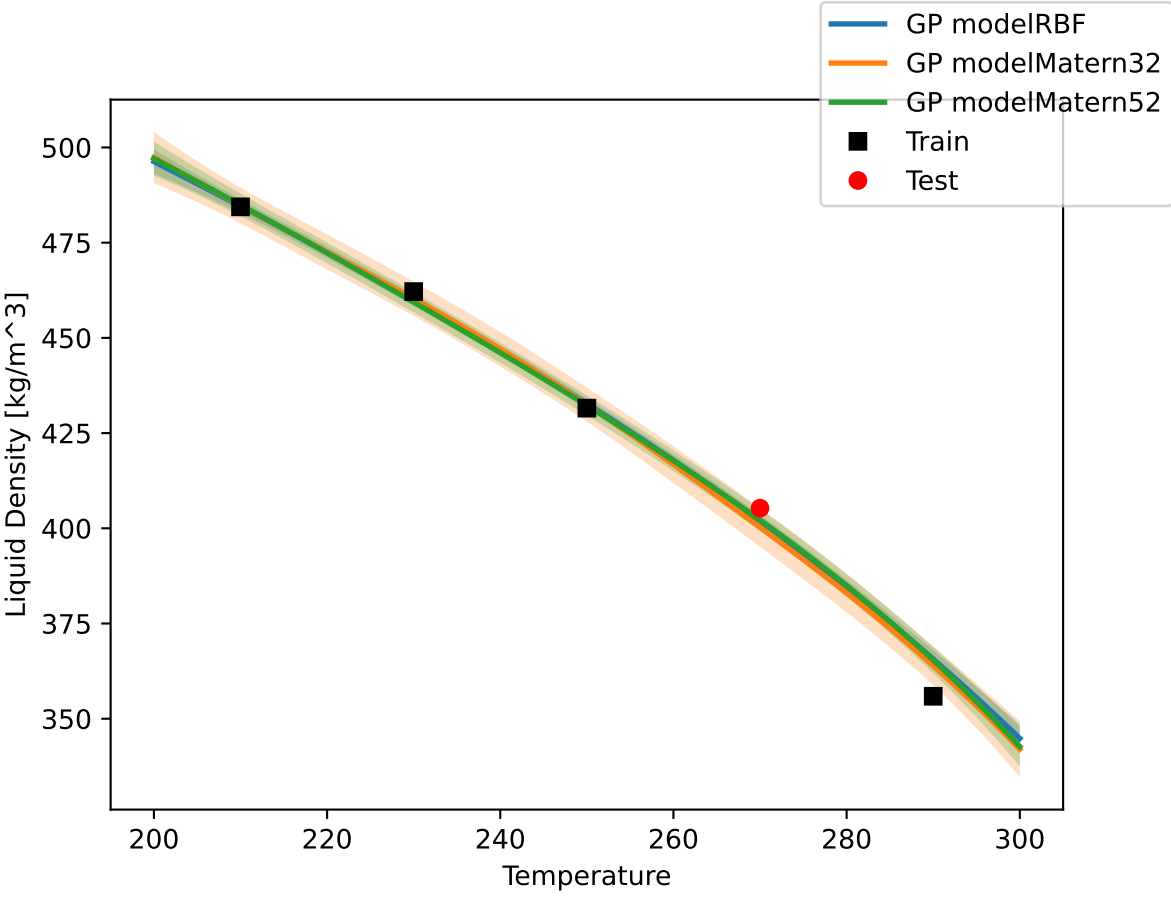
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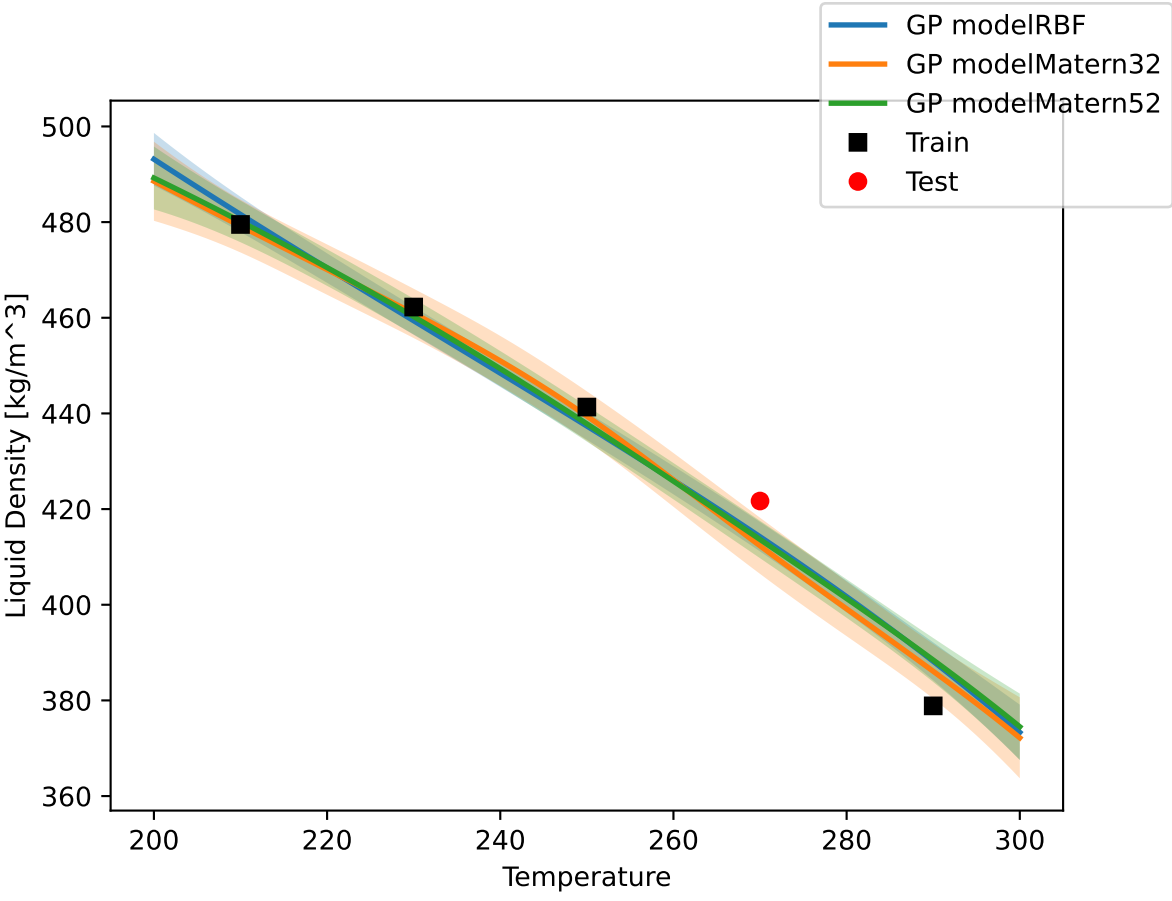
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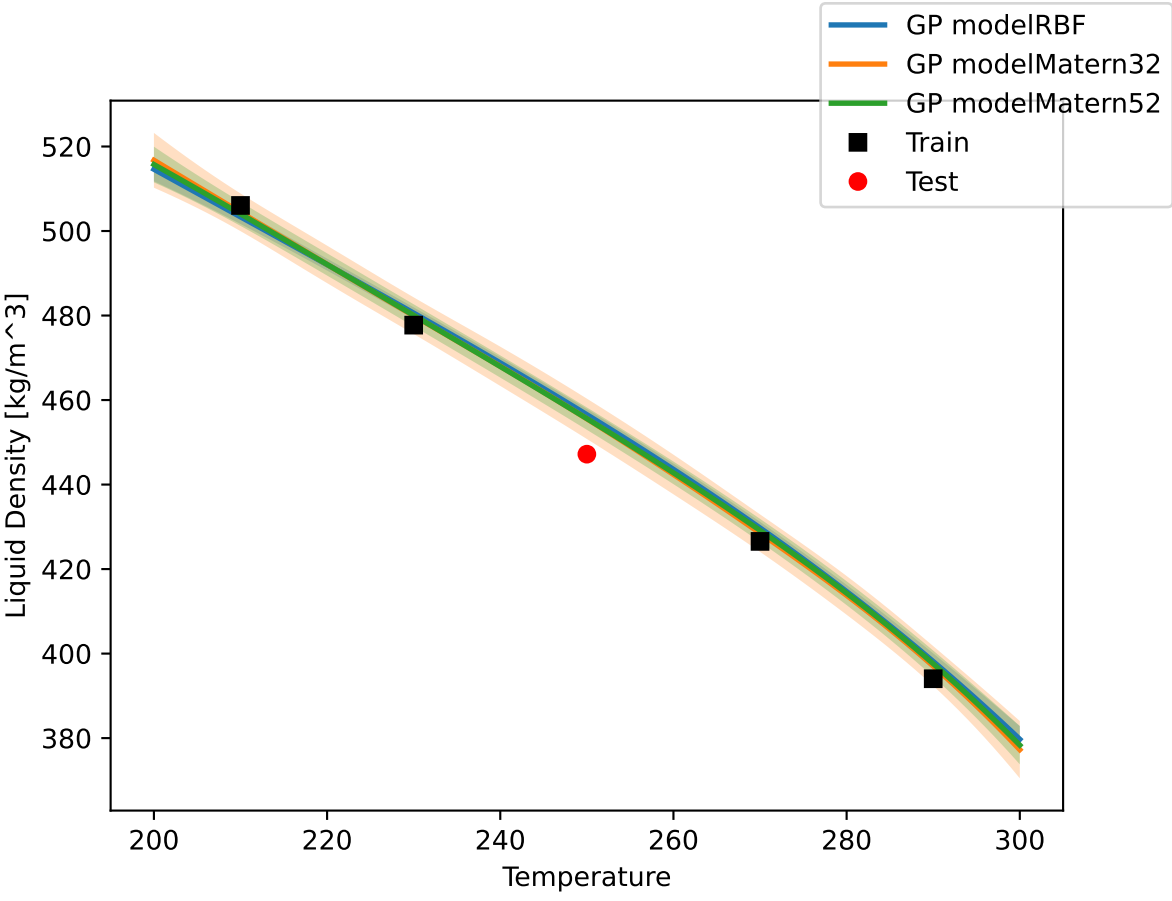
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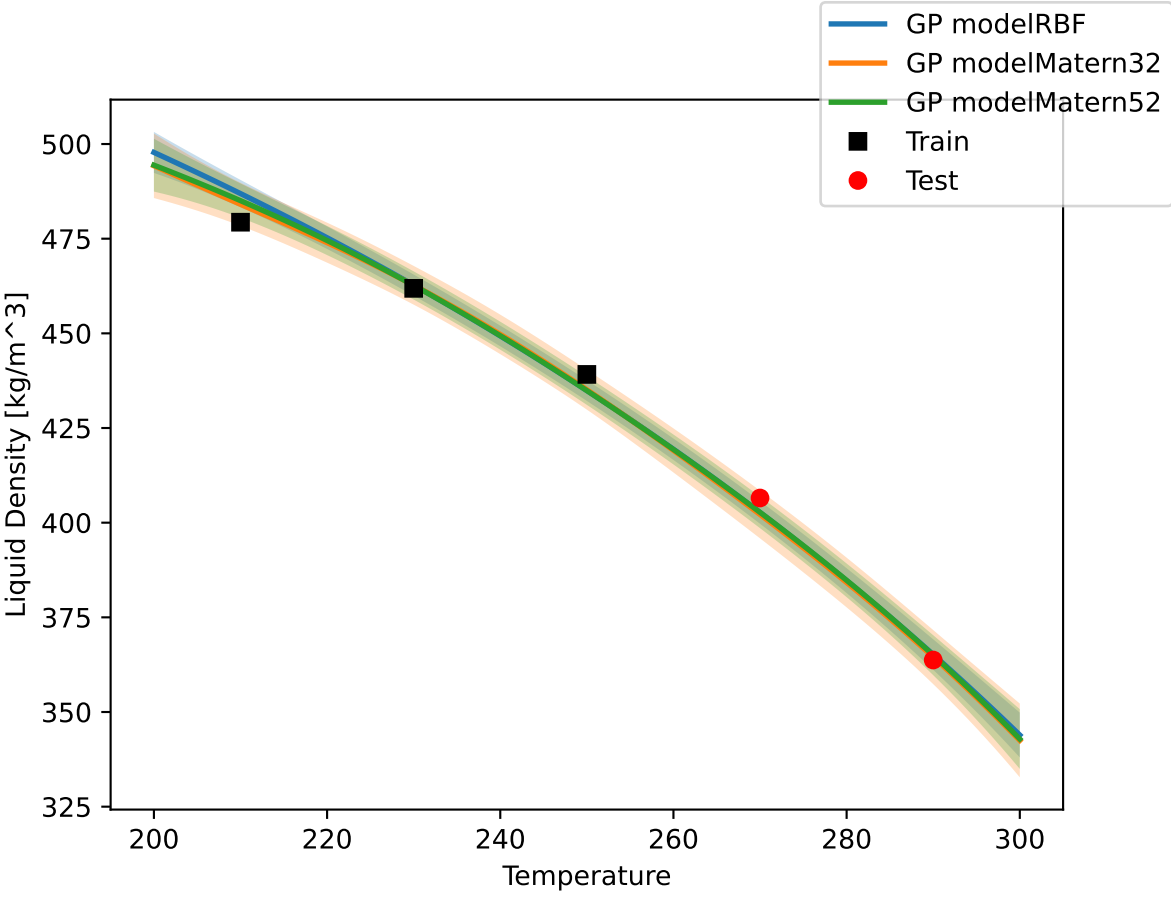
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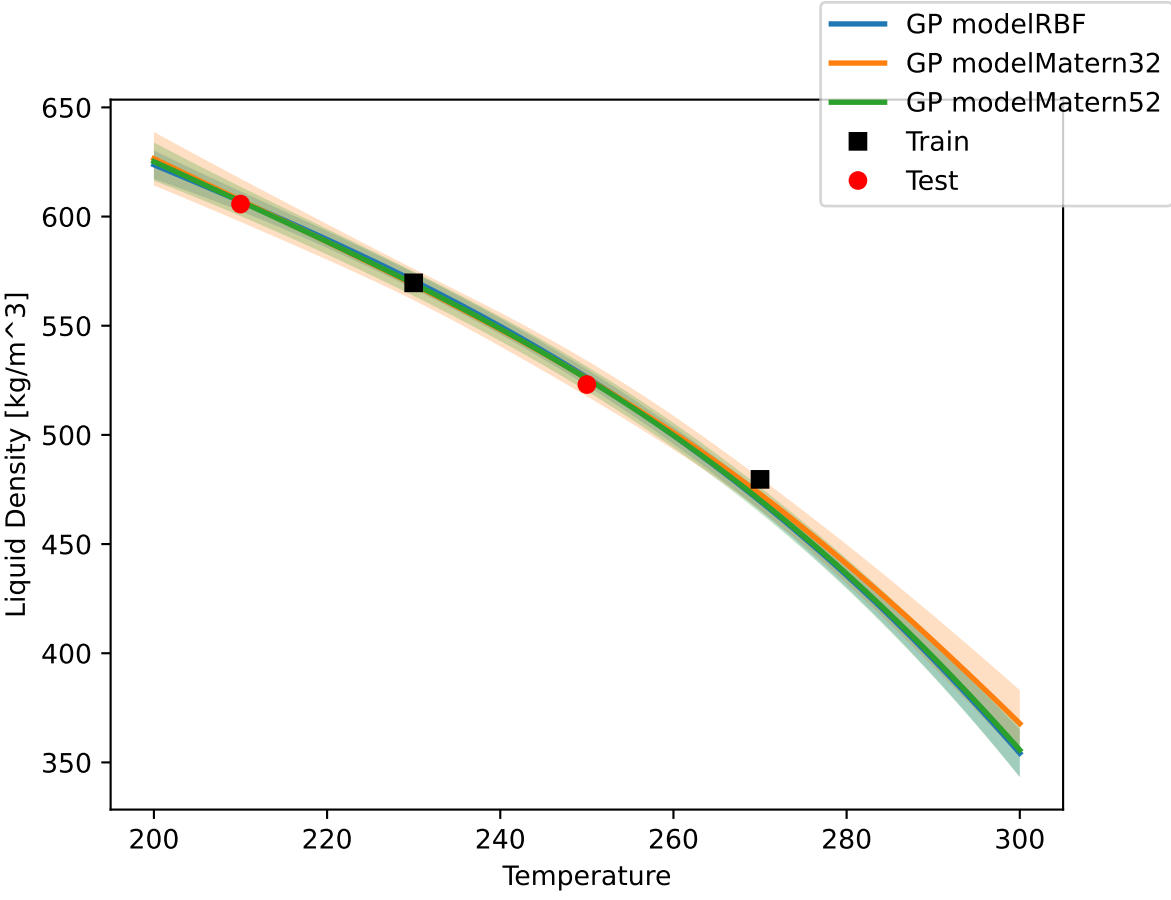
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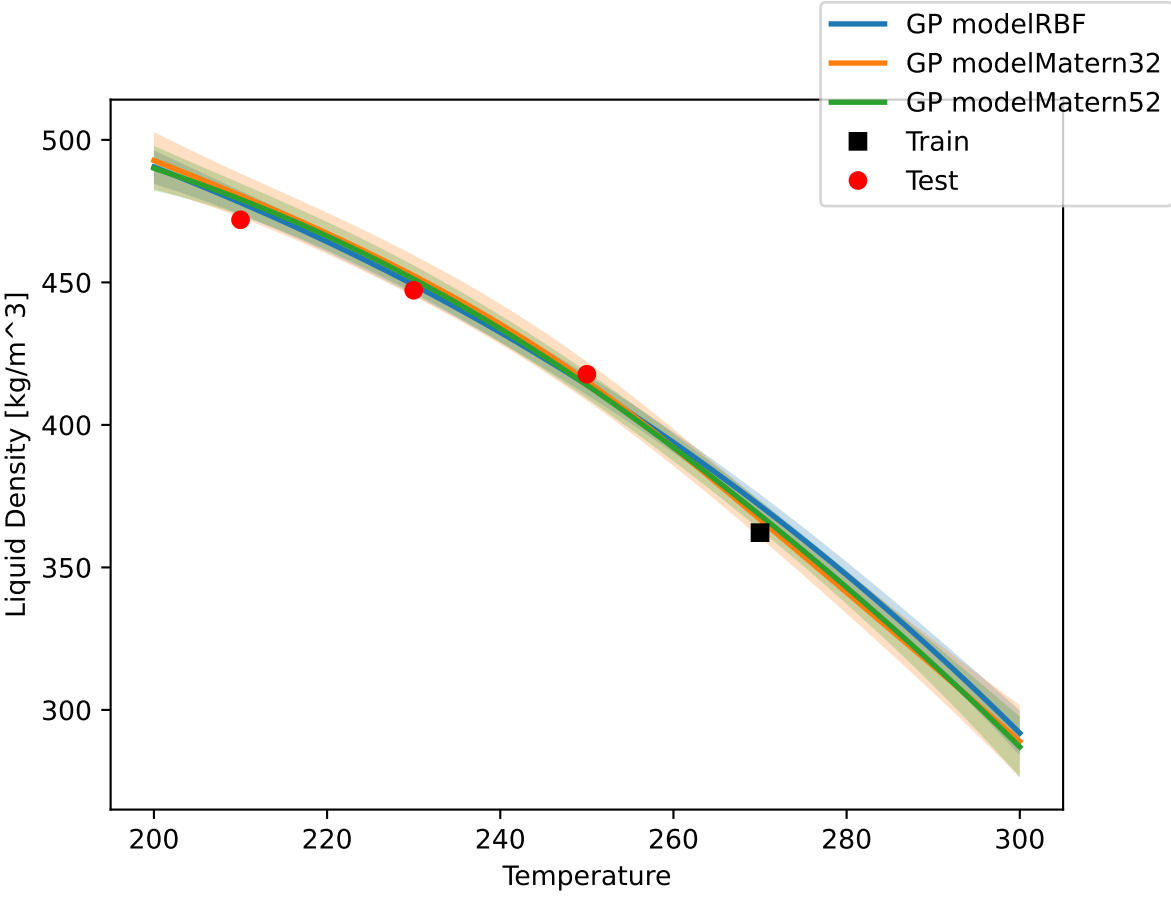
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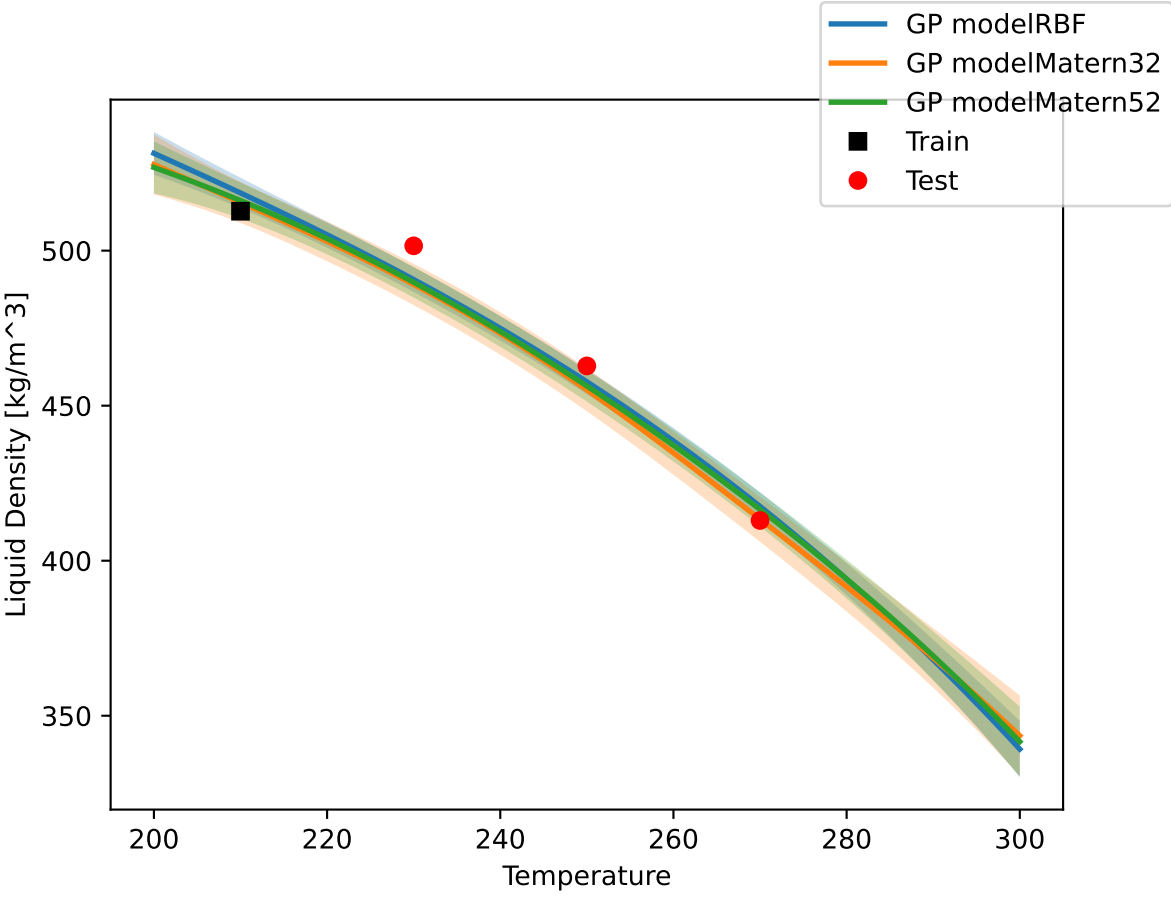
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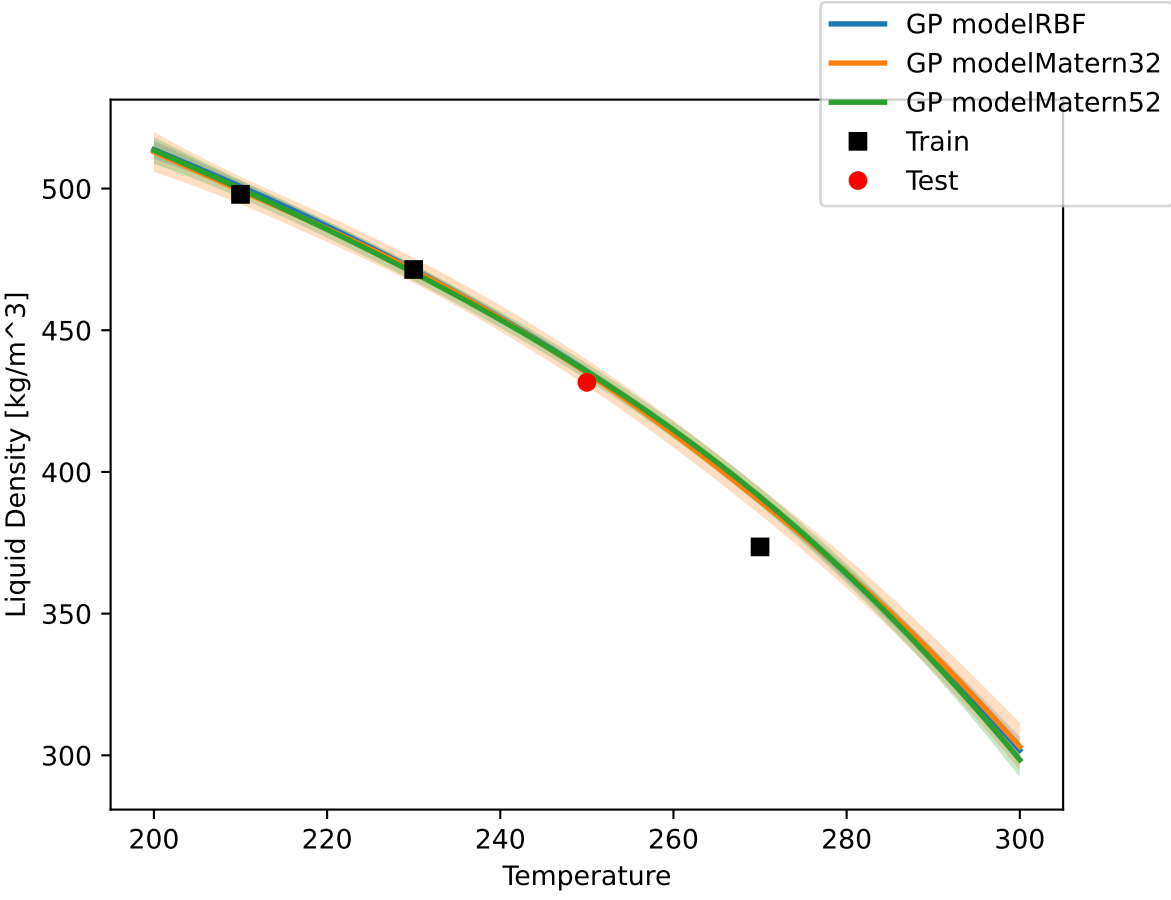
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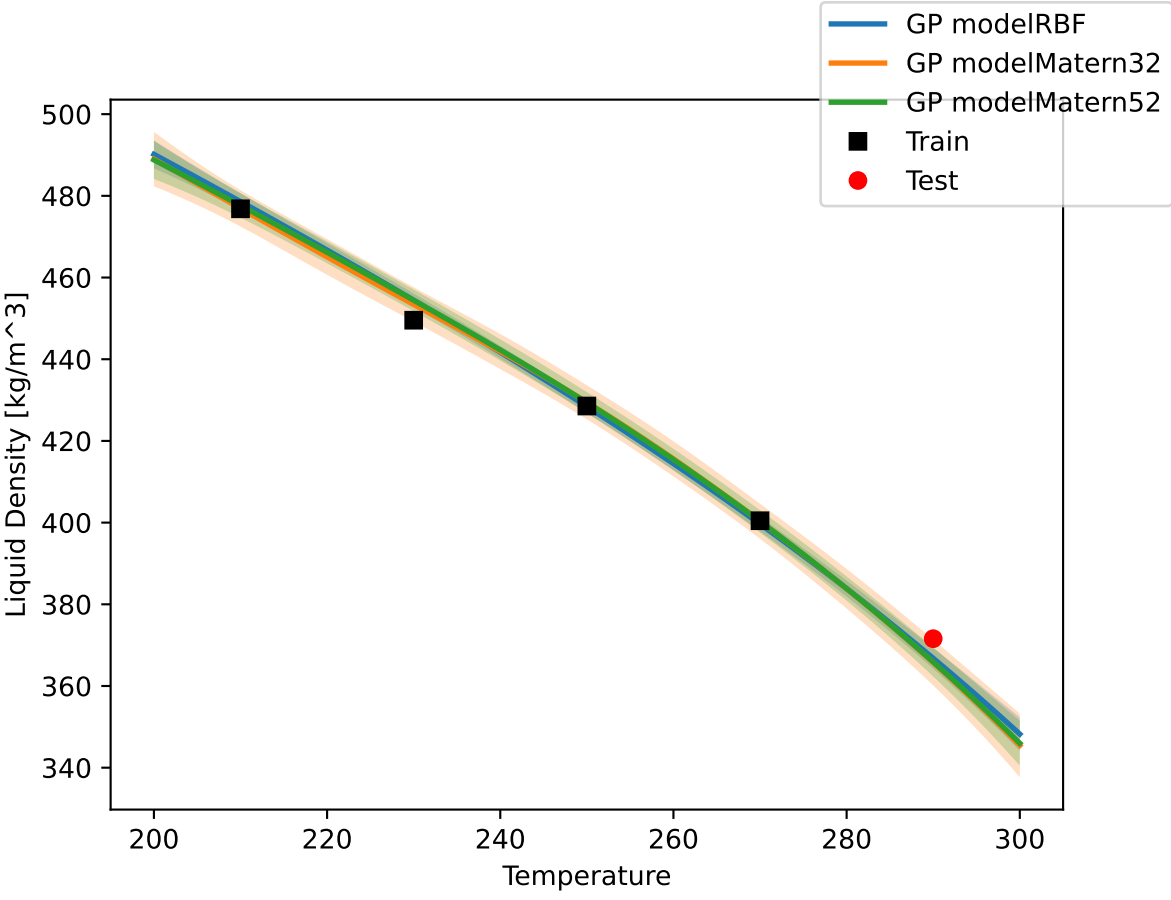
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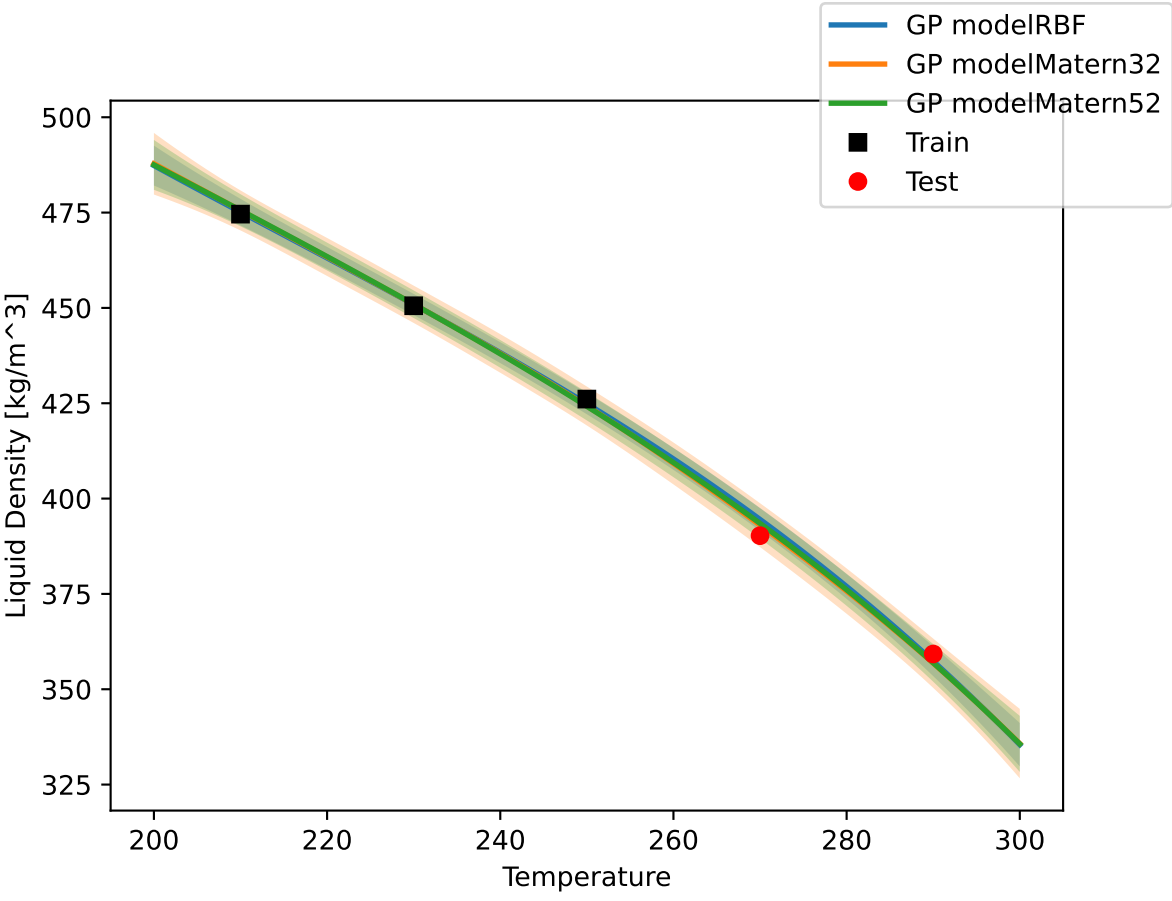
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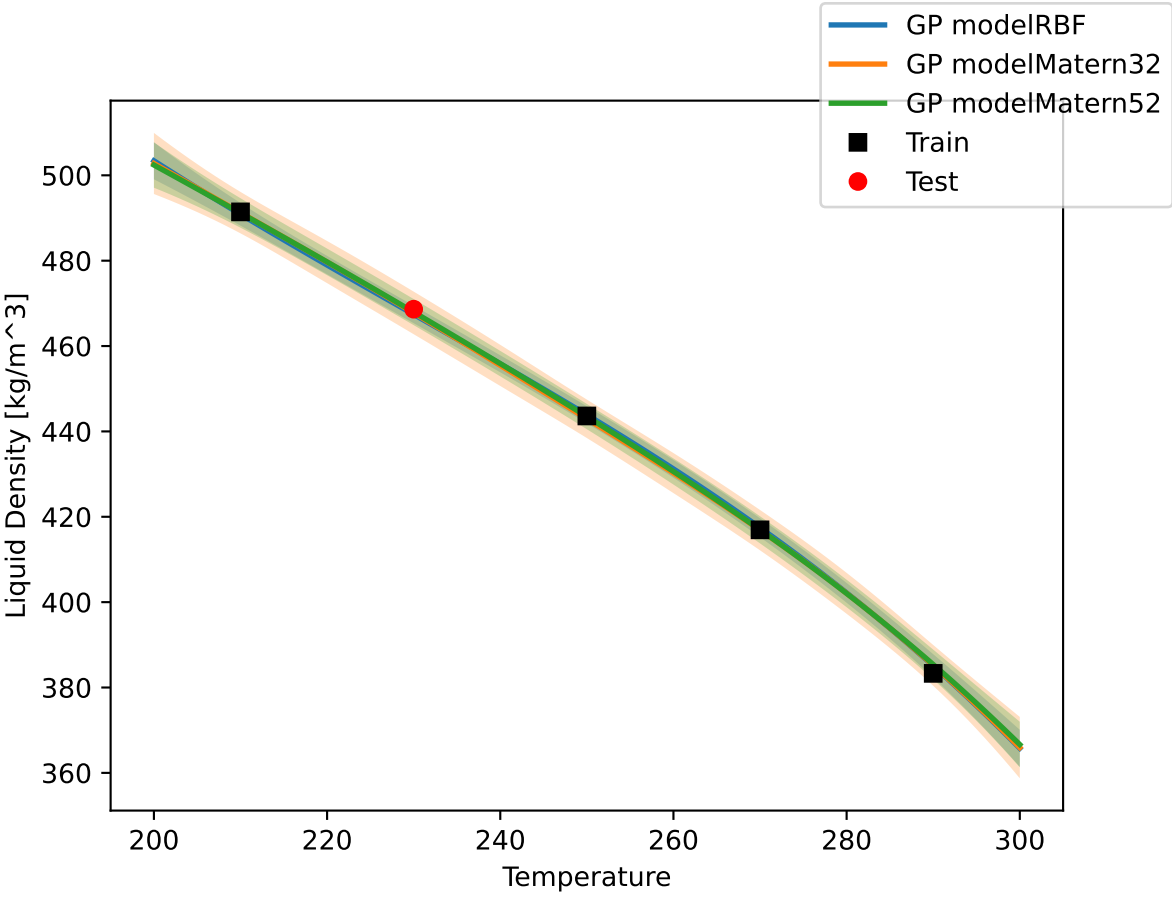
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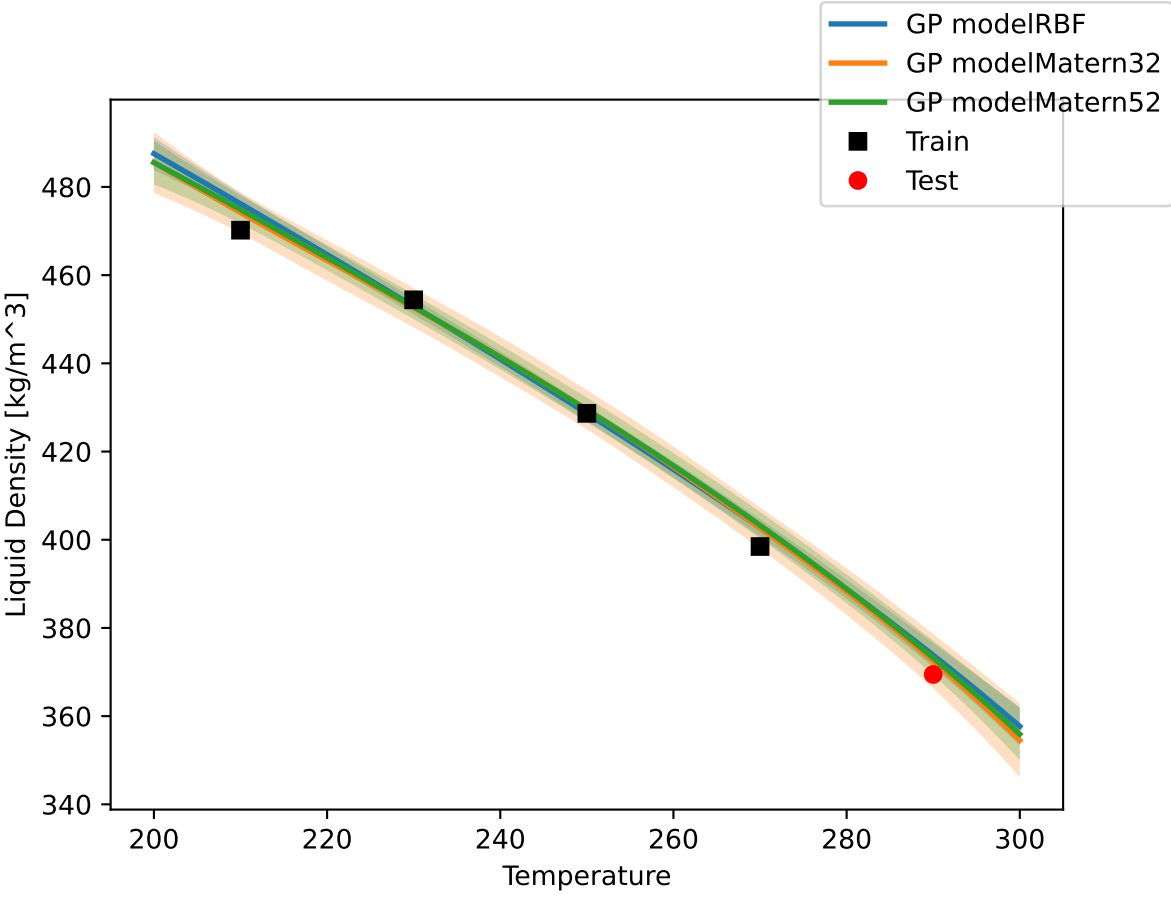
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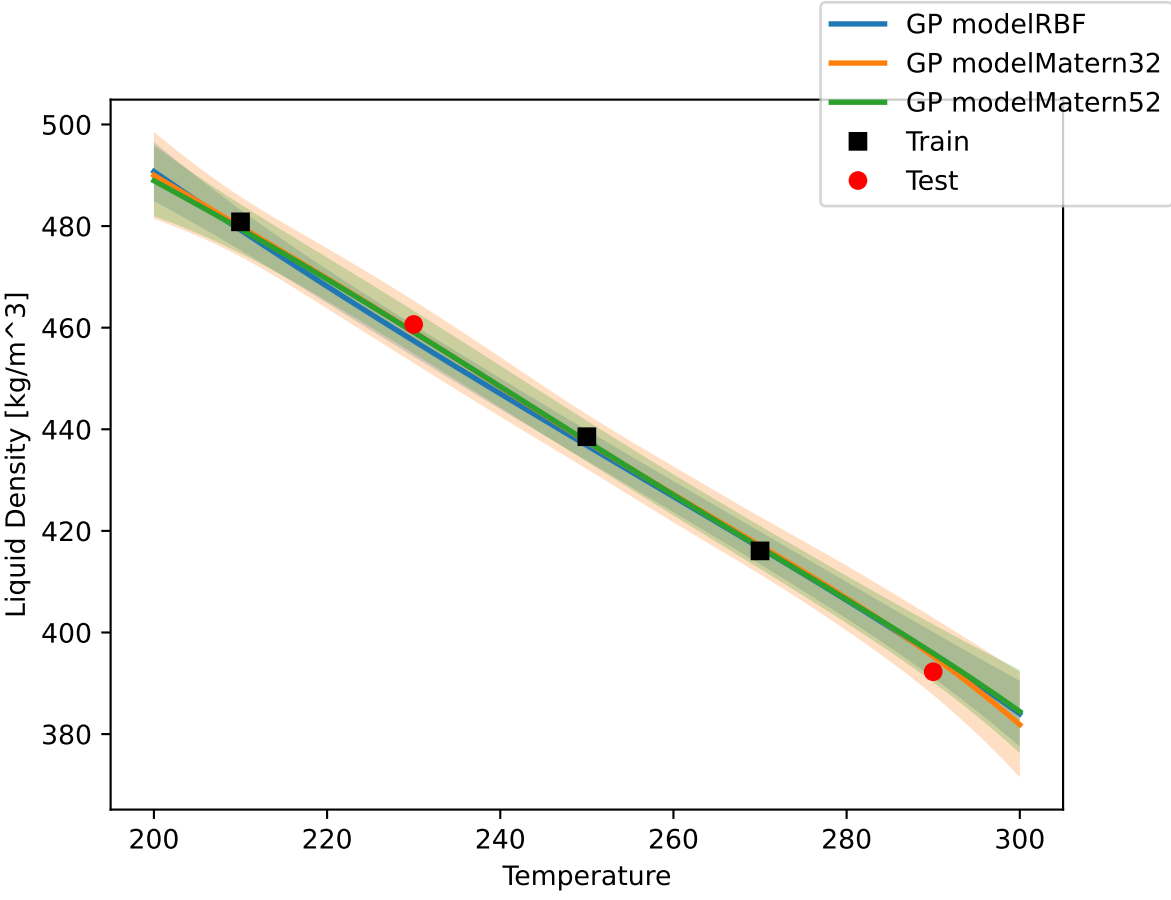
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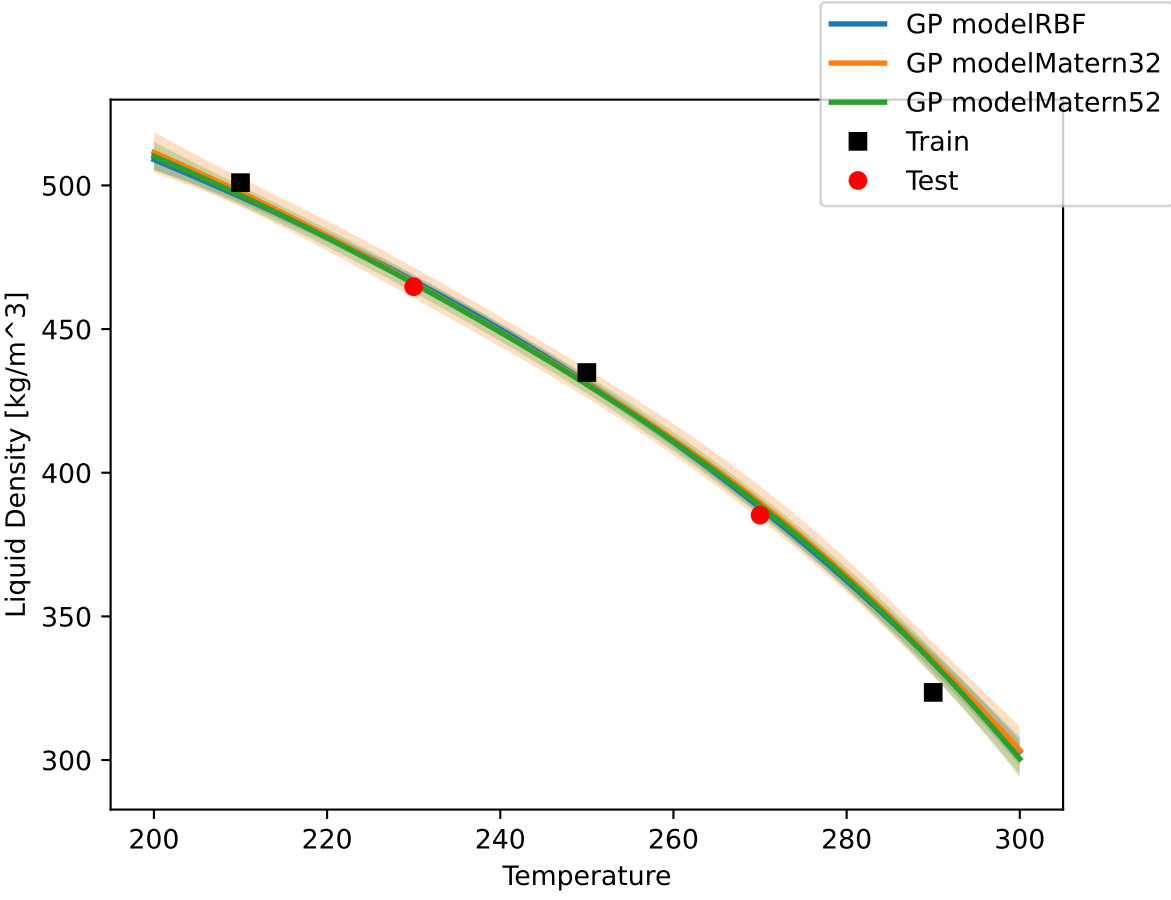
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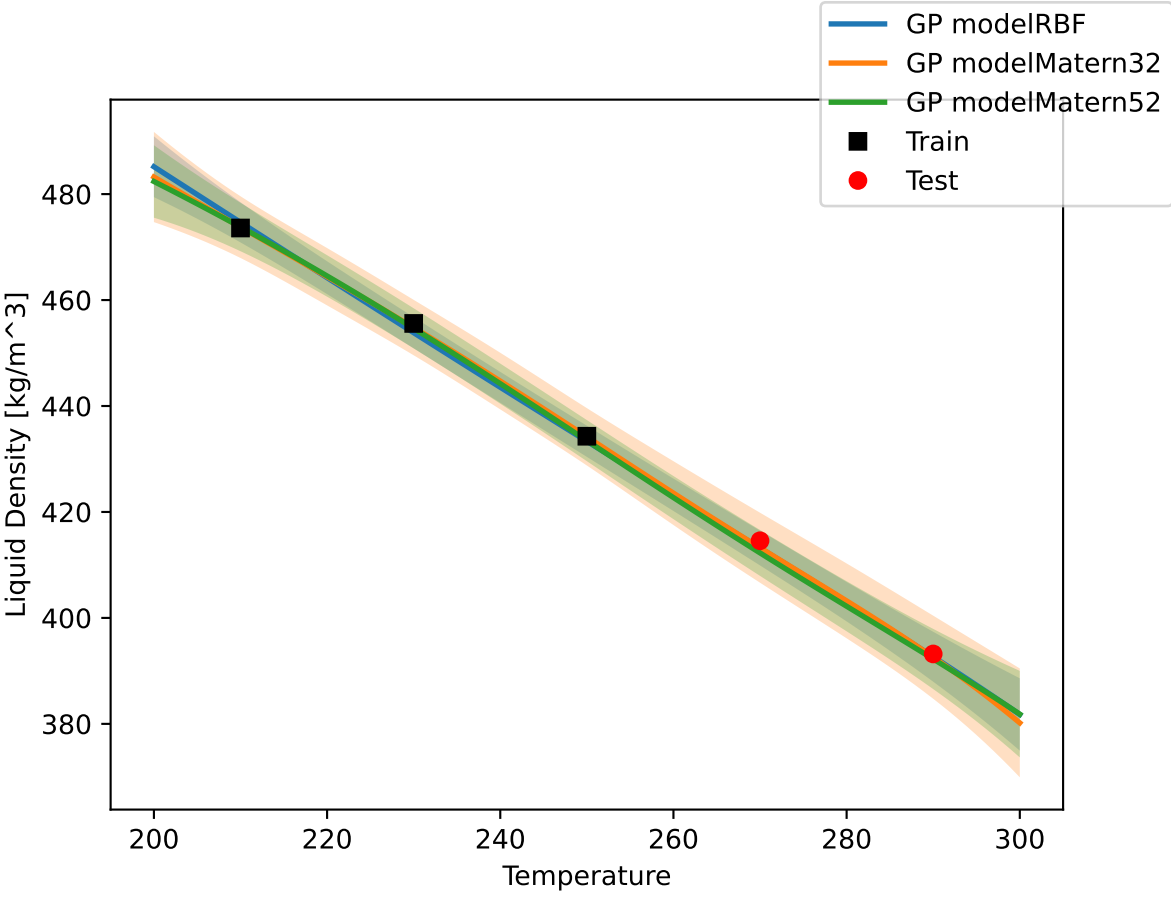
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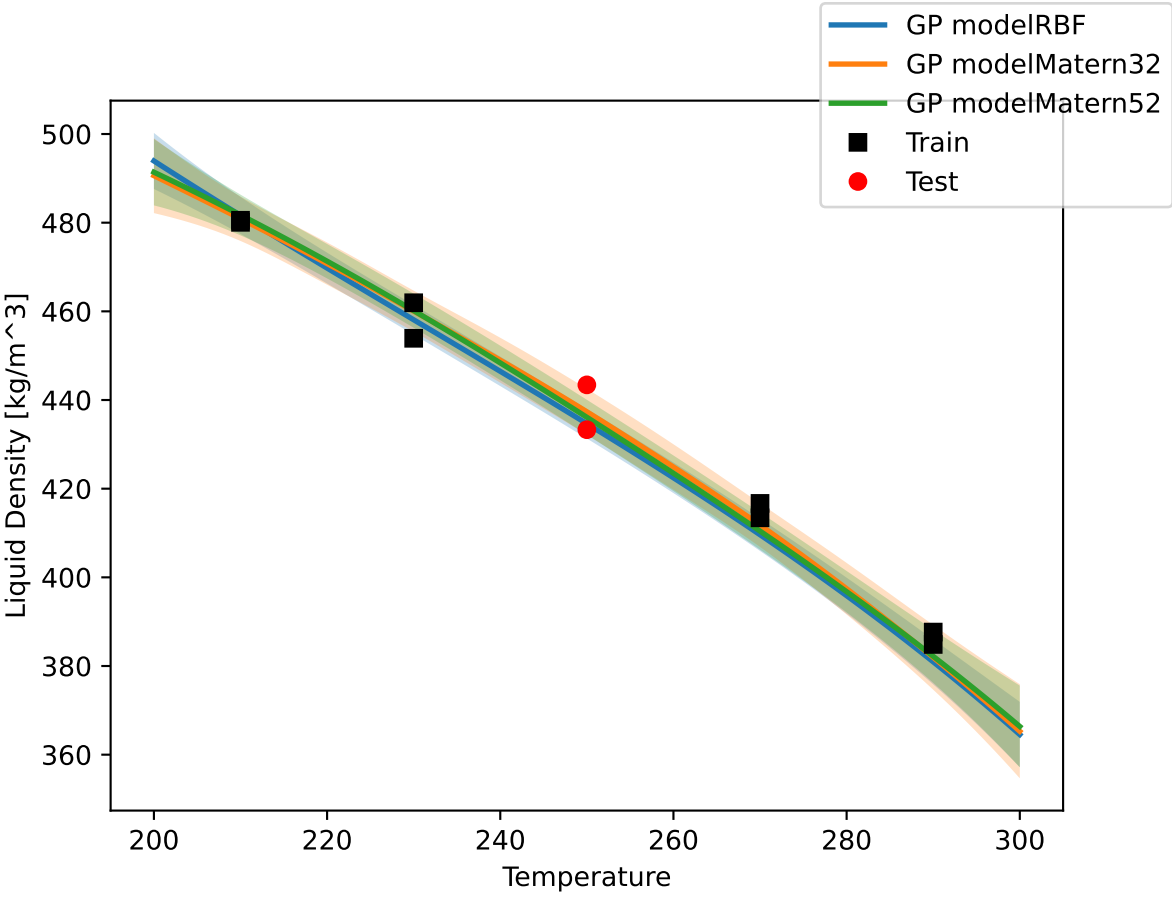
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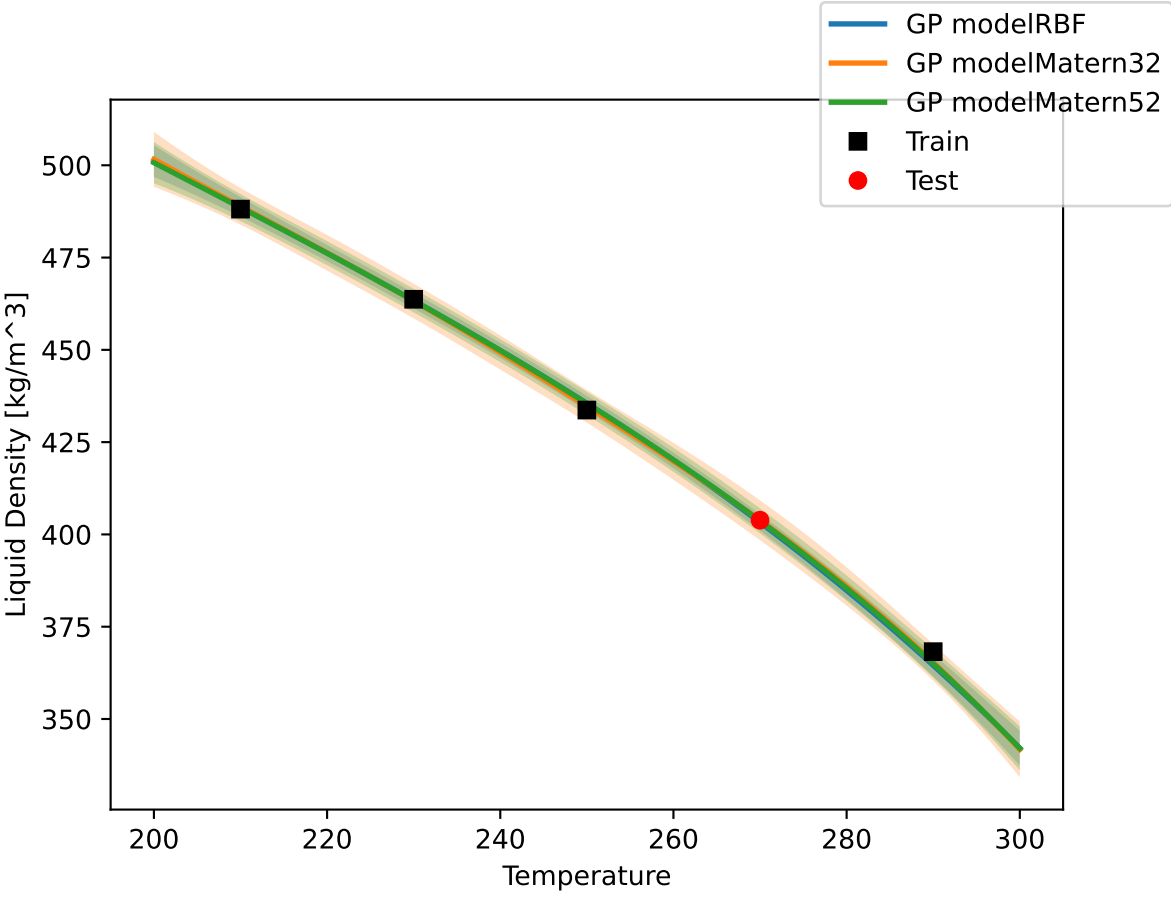
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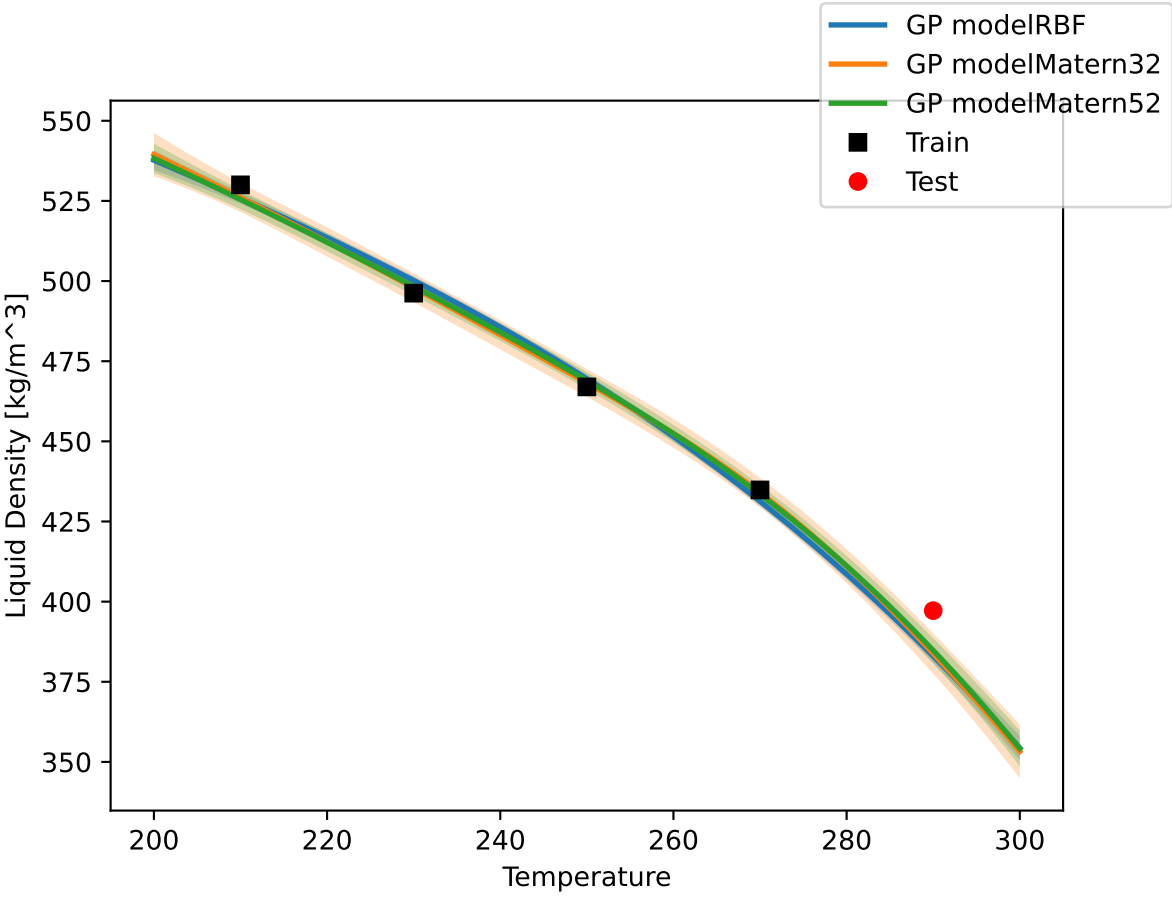
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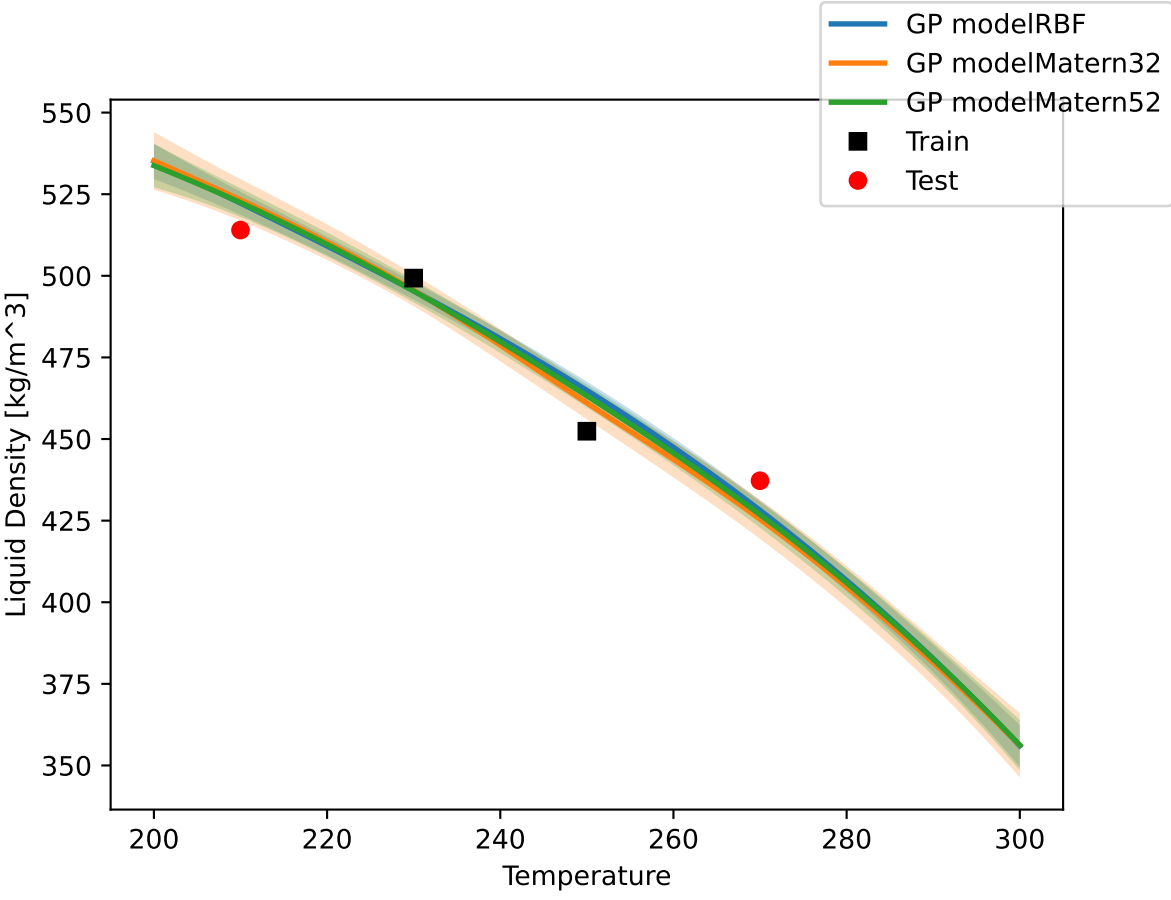
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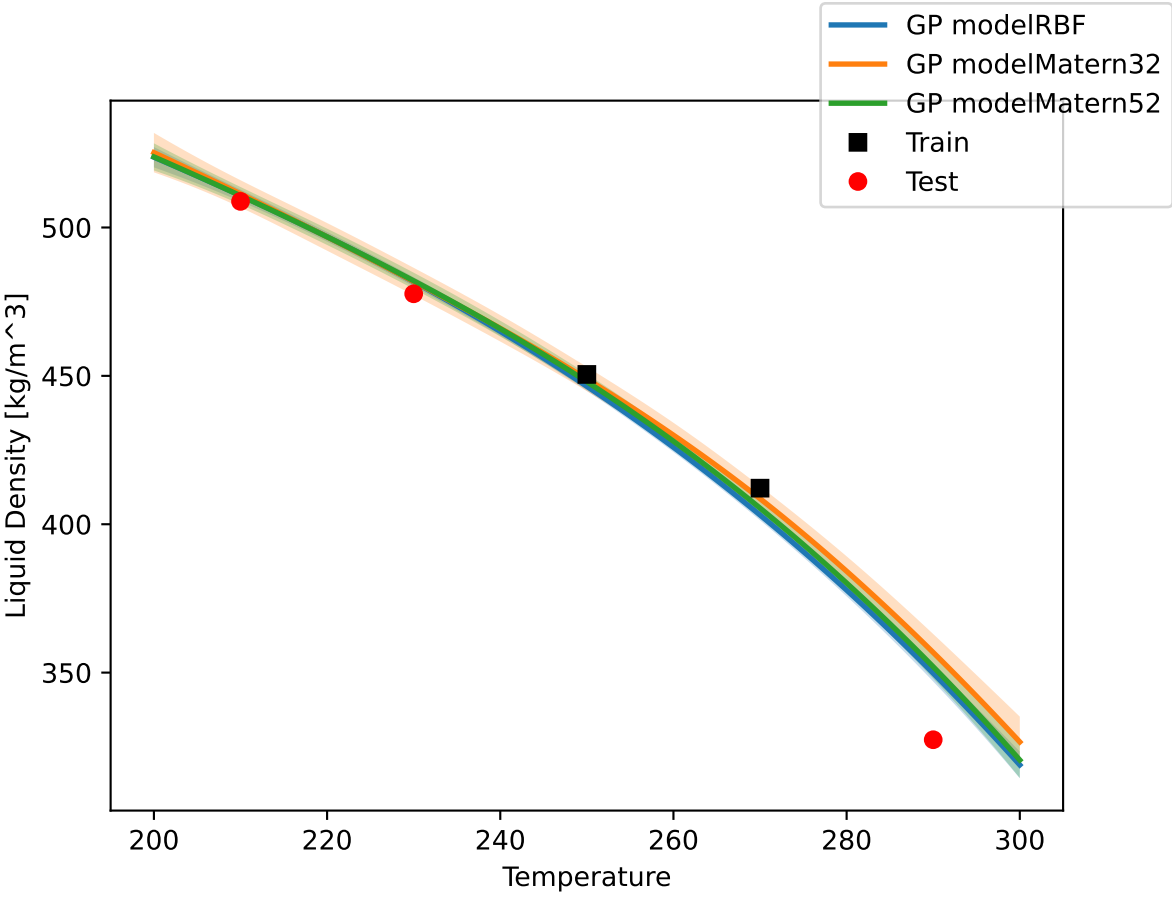
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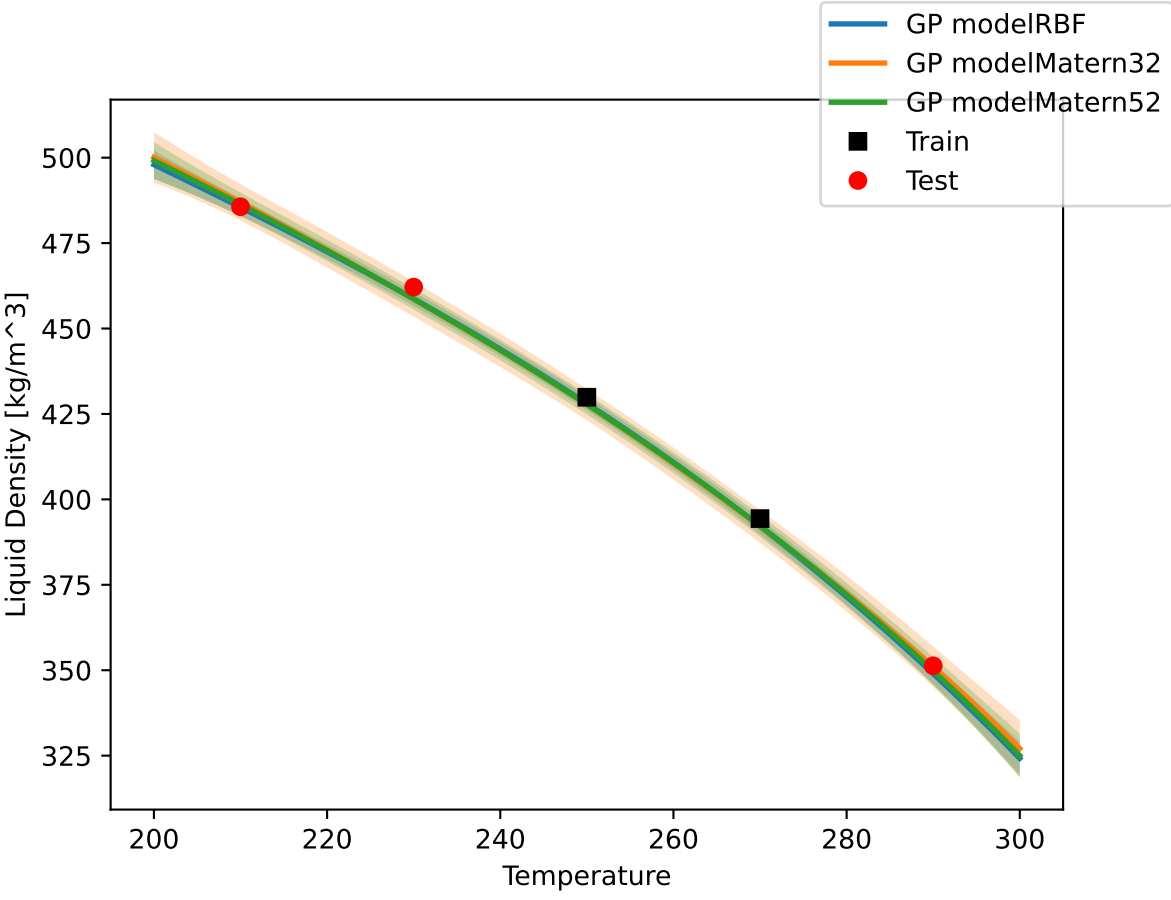
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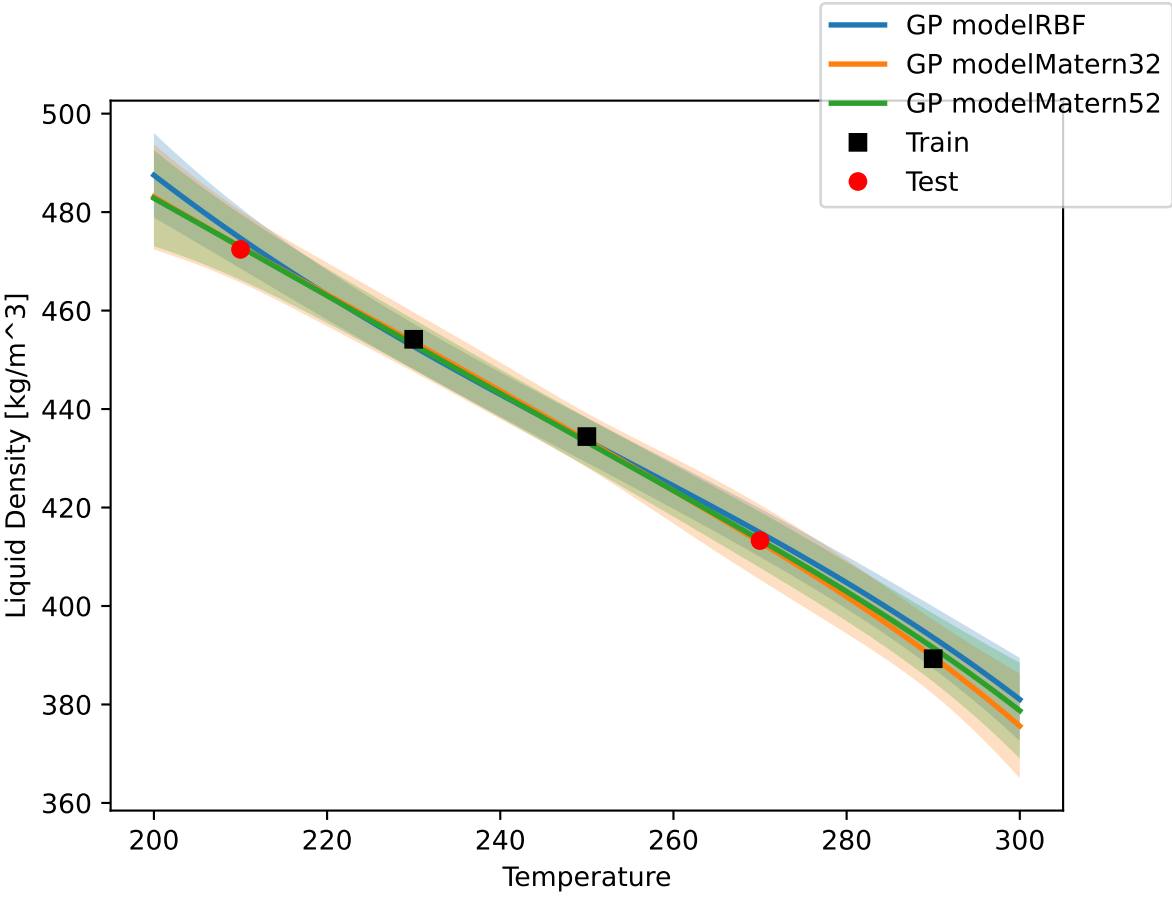
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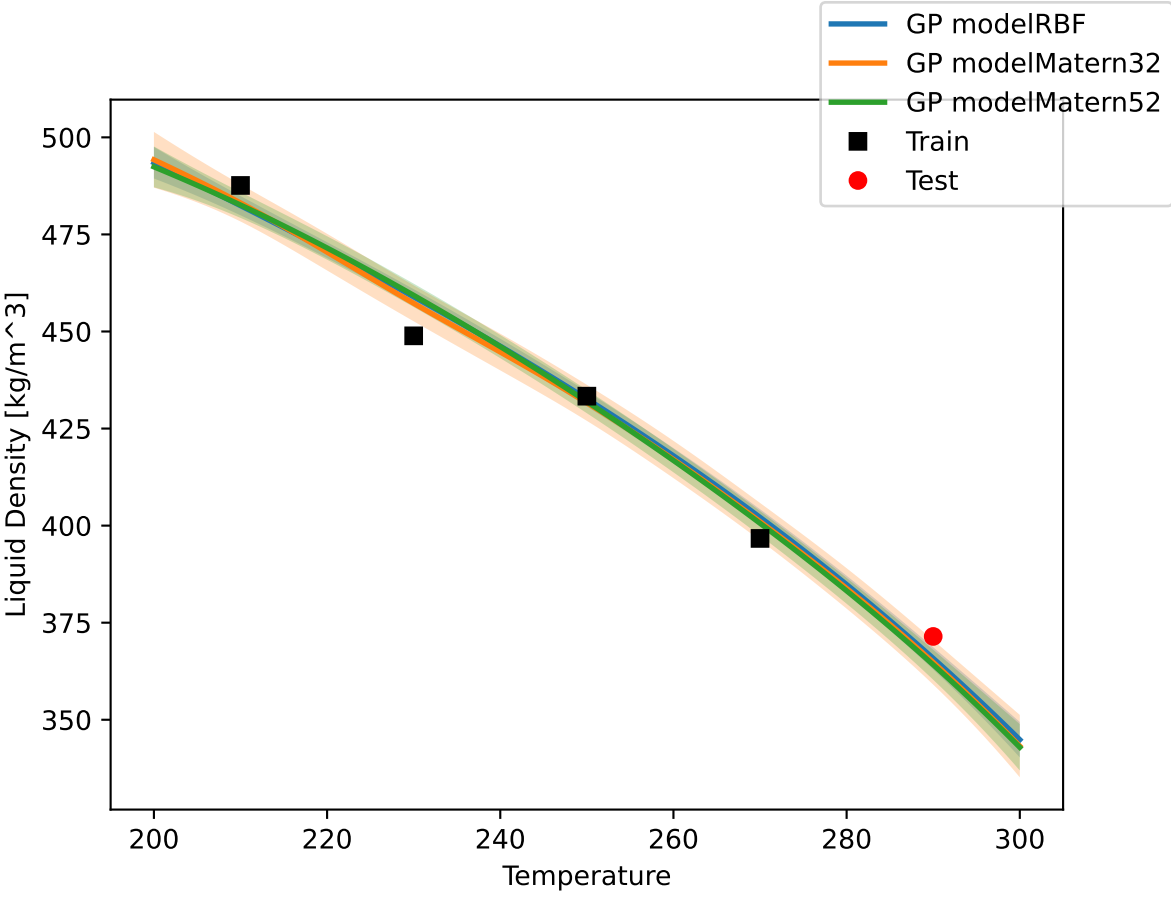
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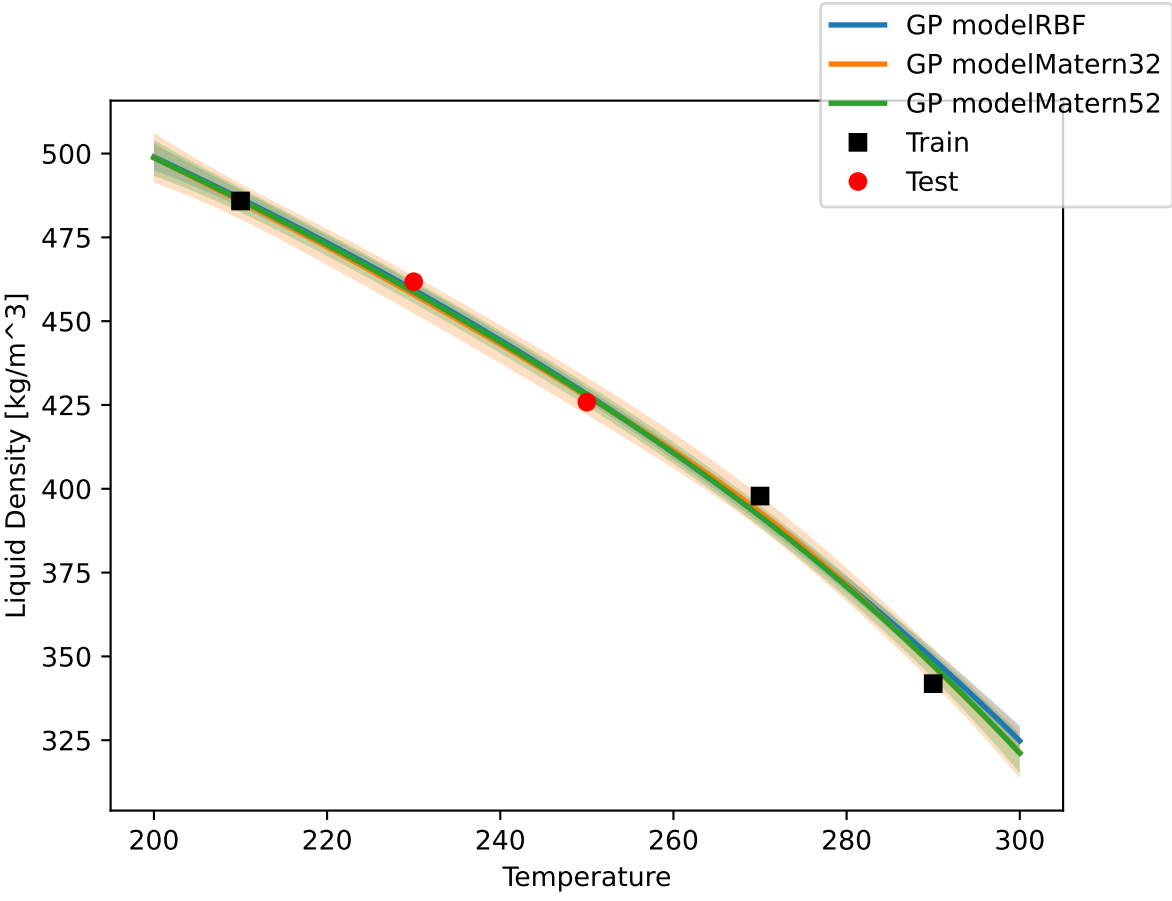
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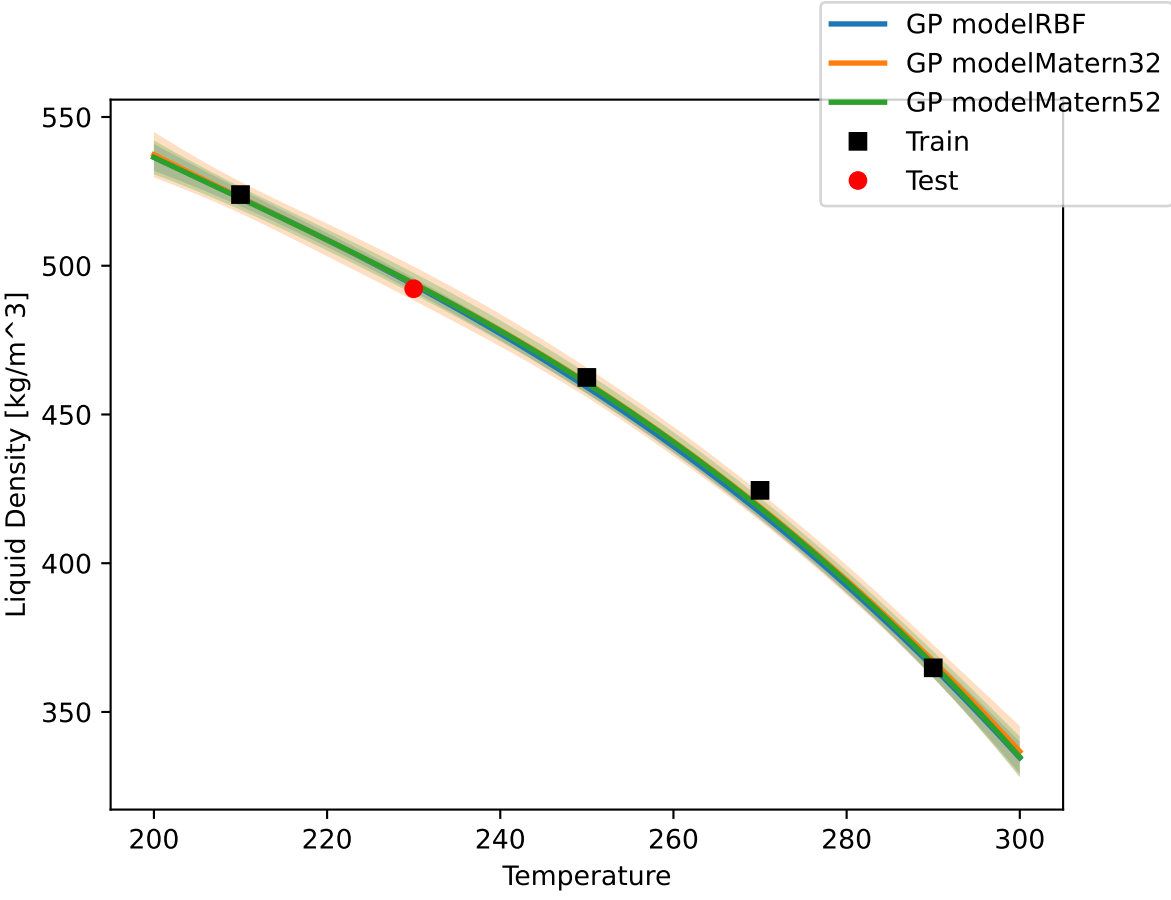
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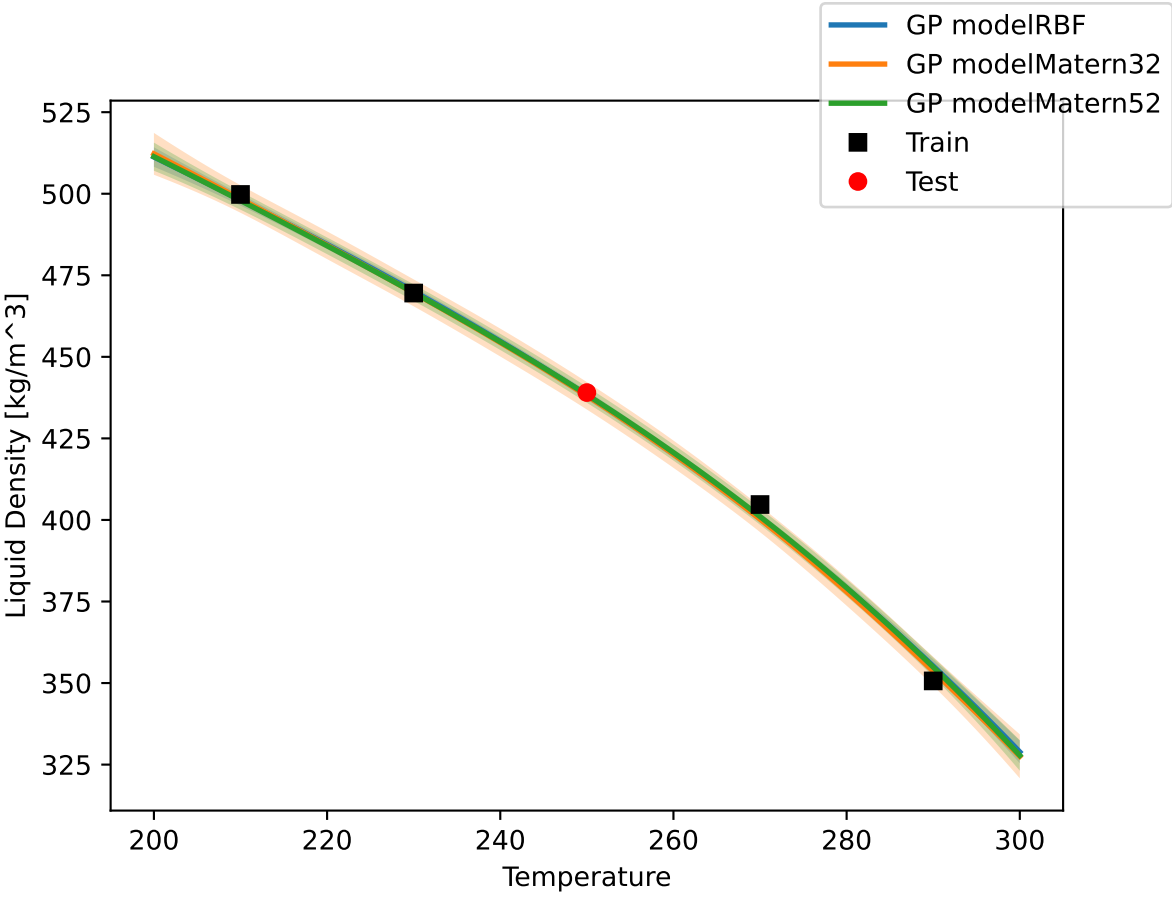
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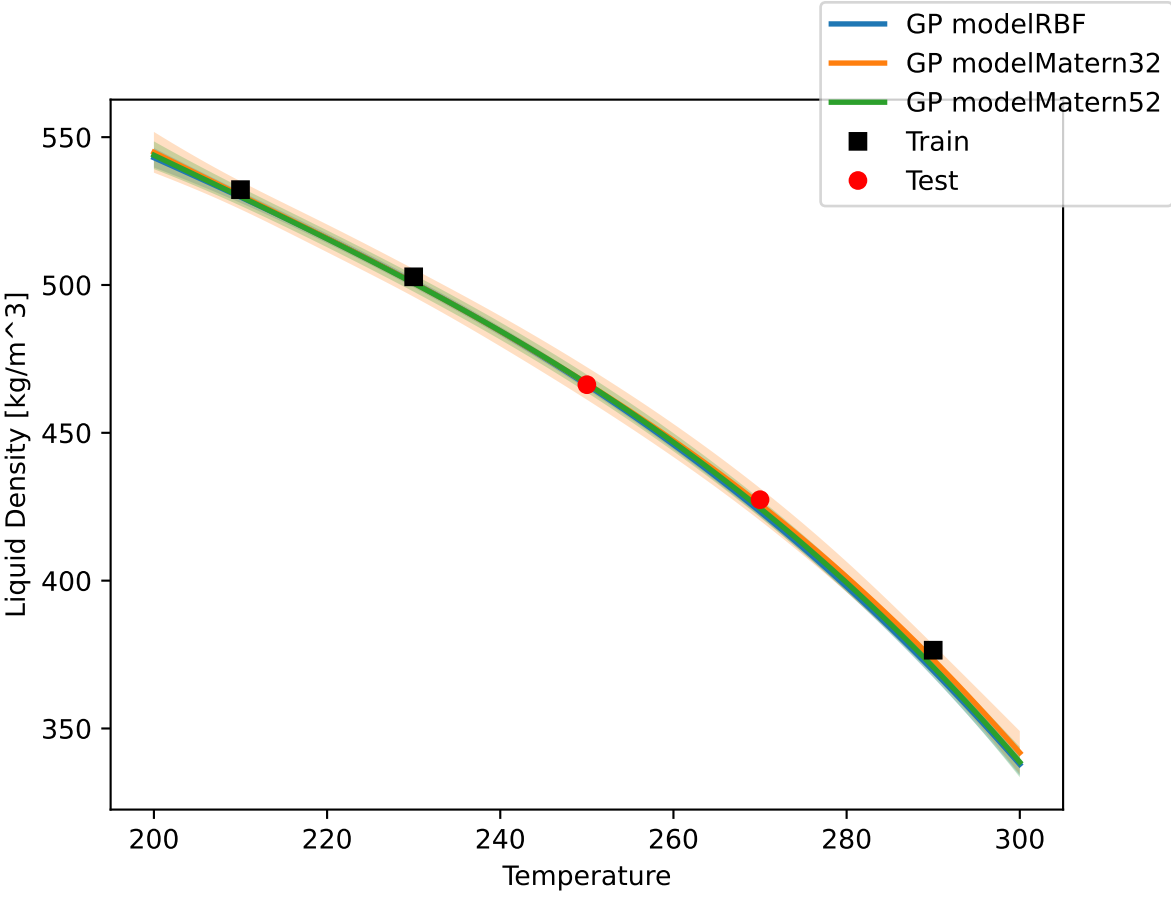
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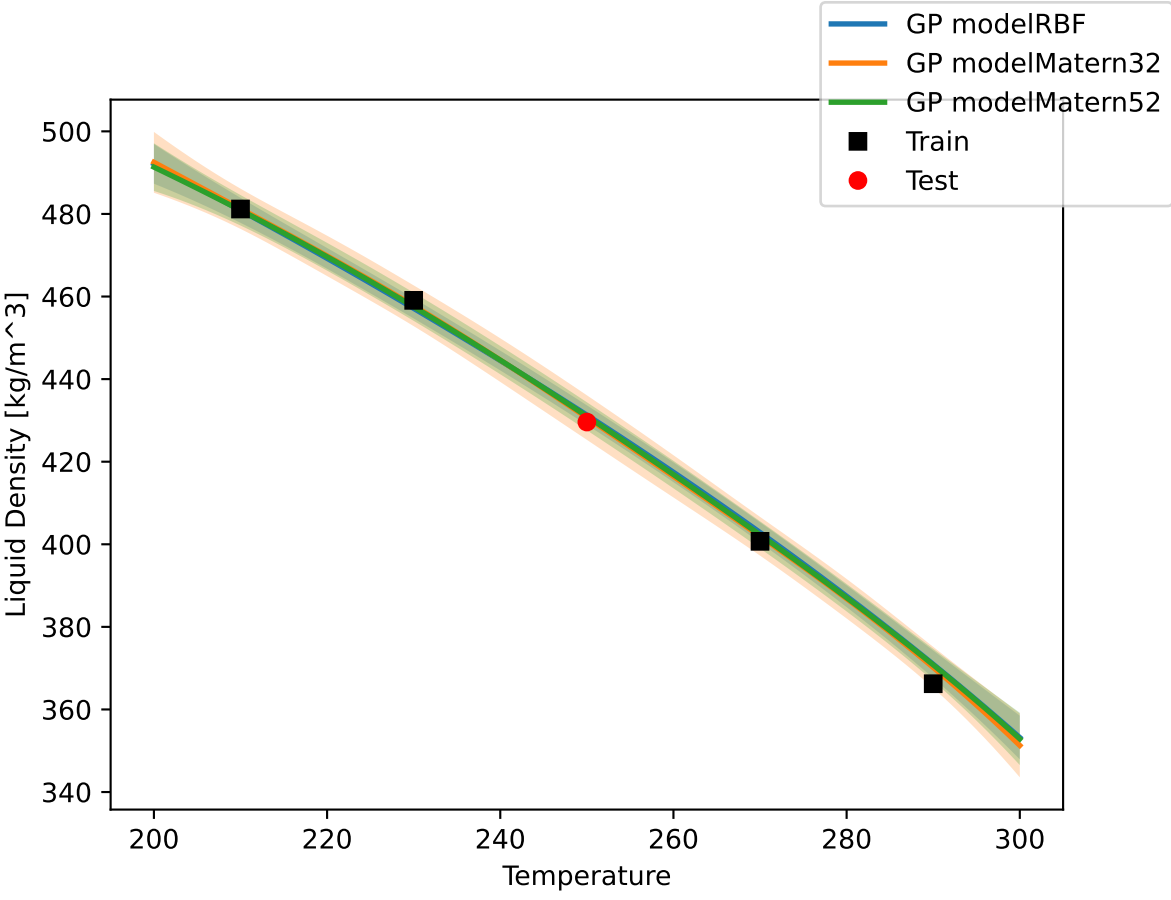
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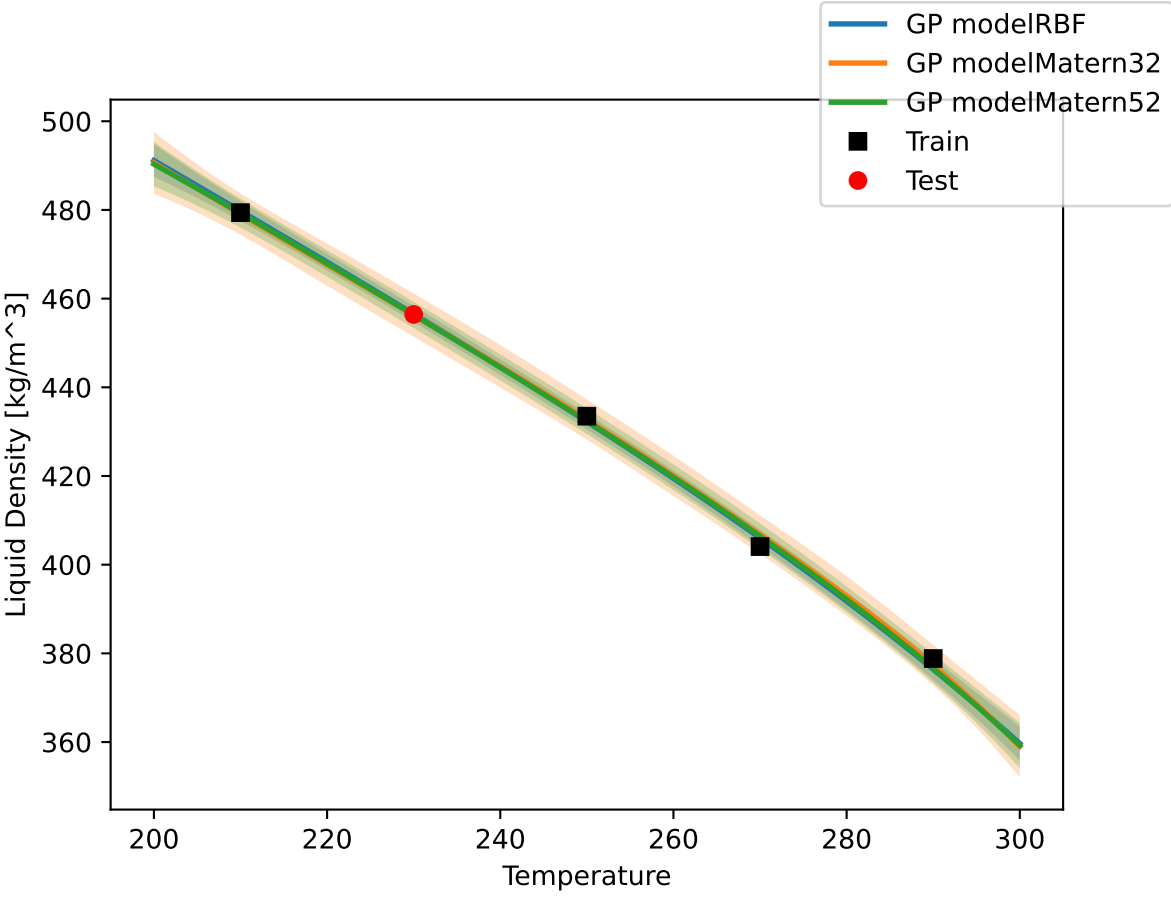
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Train
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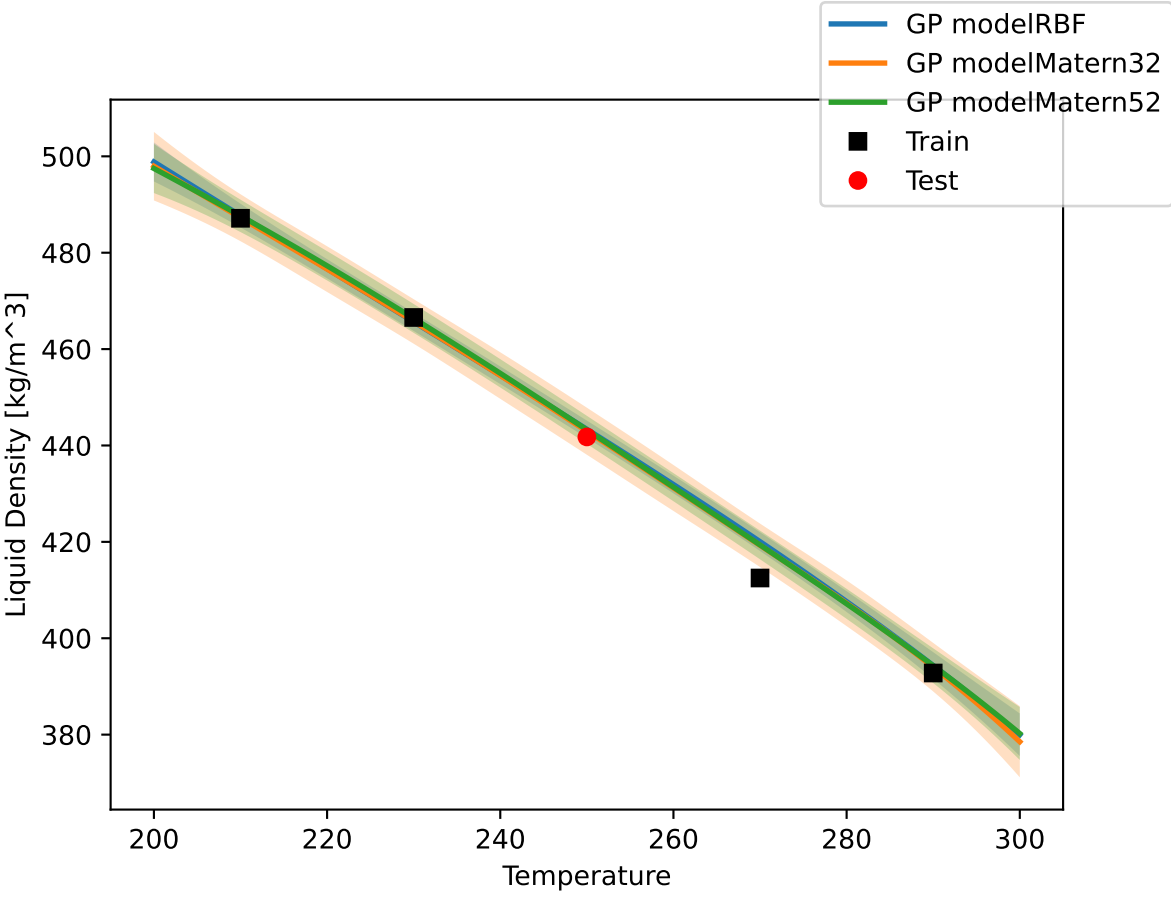
Temperature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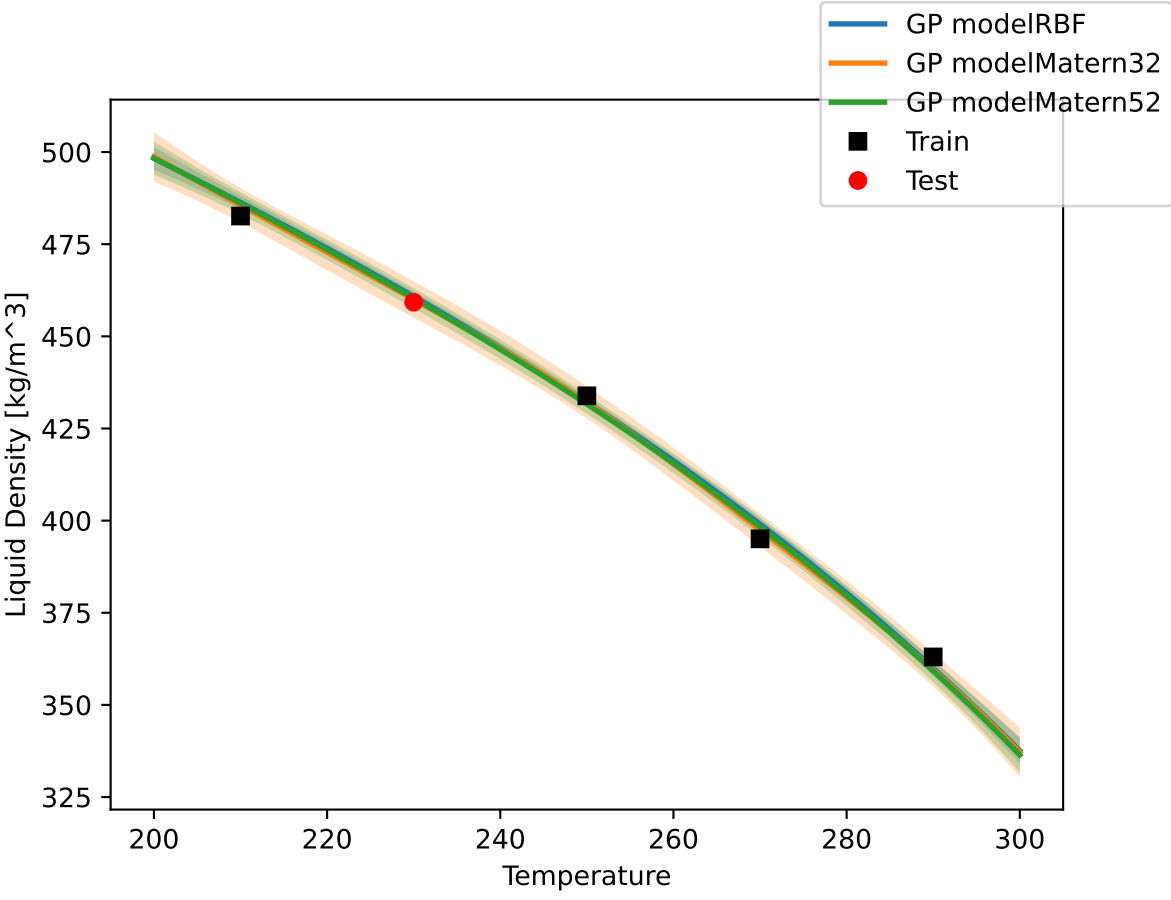
Temperature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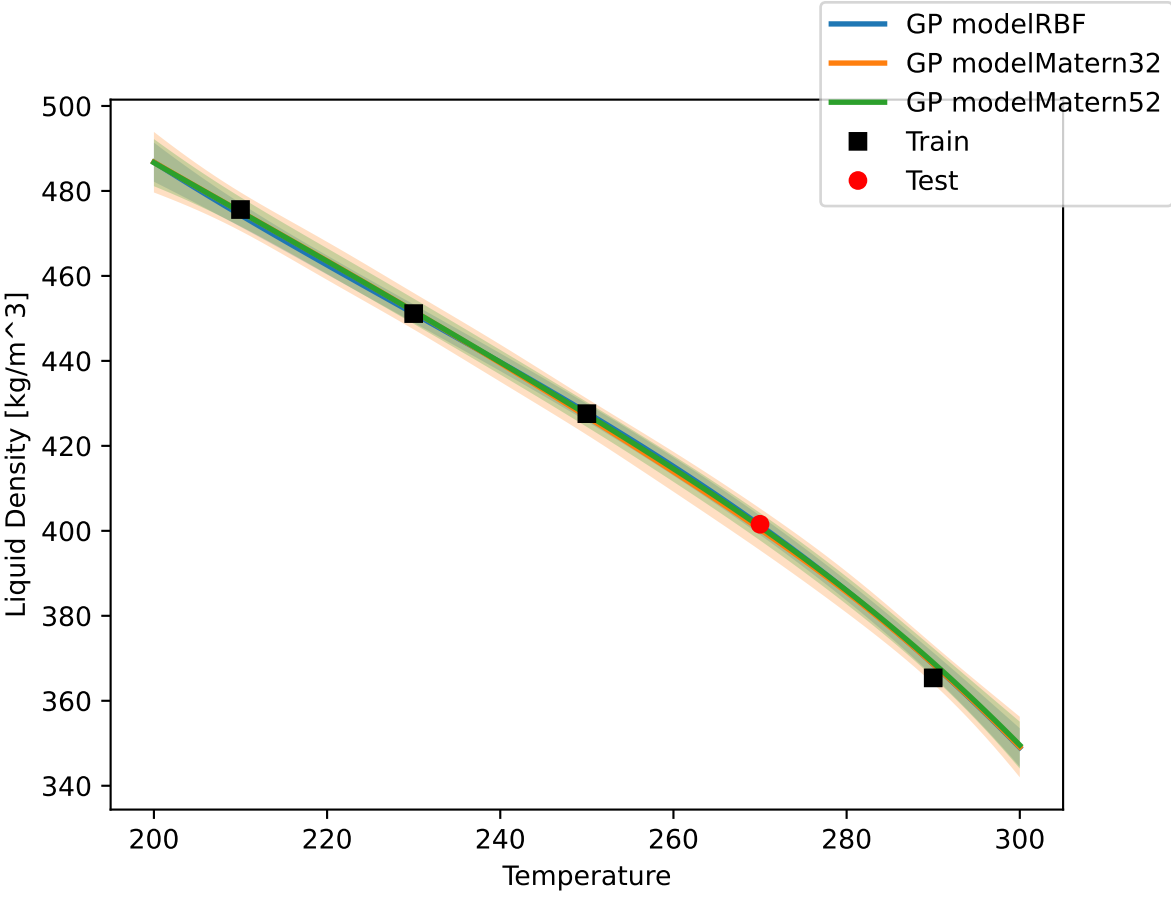
Temperature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Temperature
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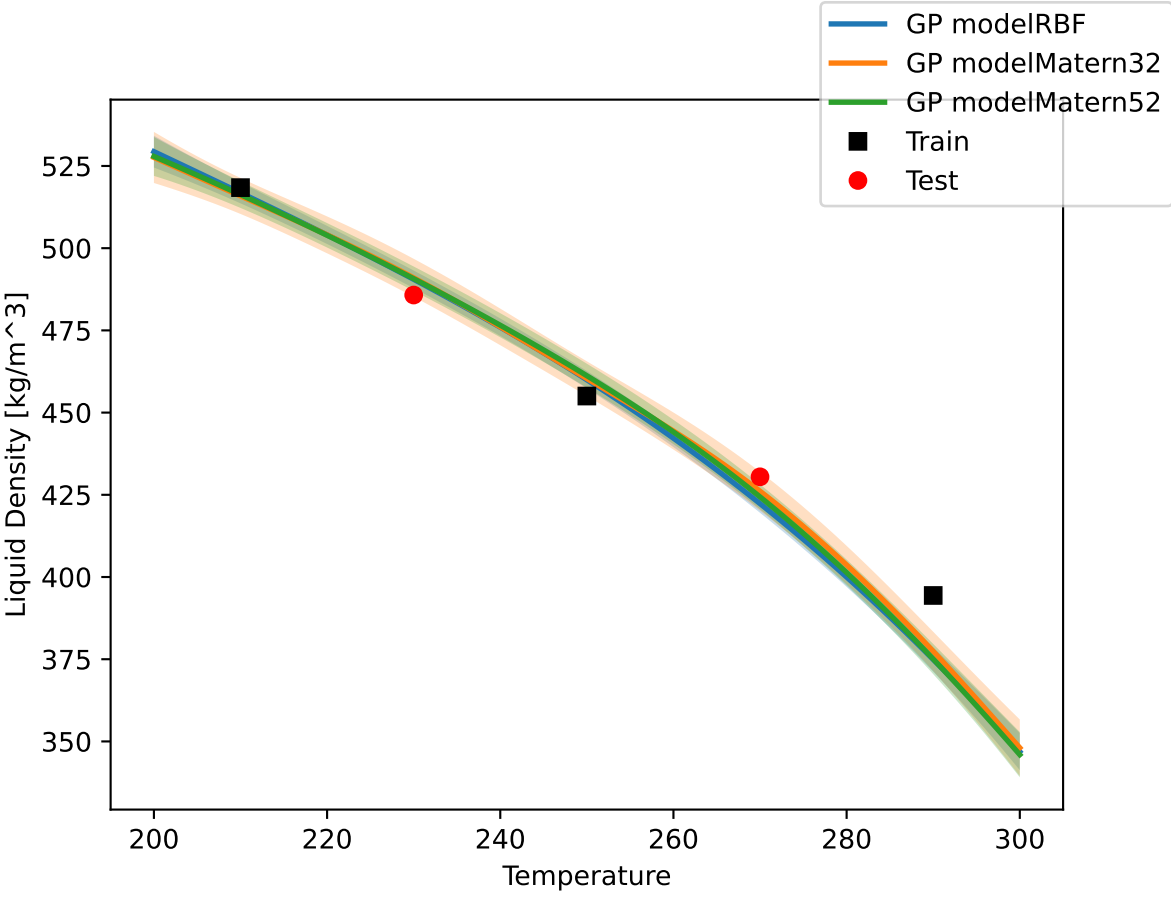
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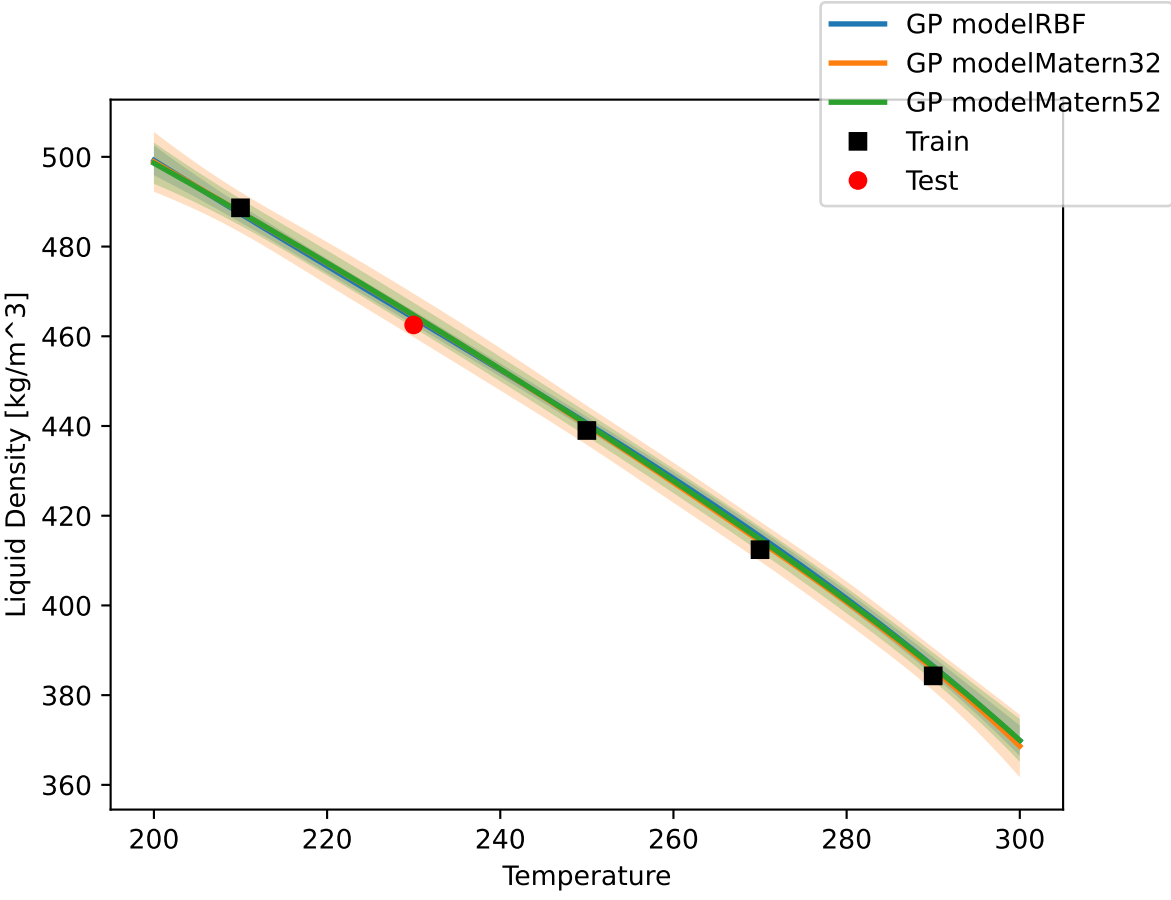
Temperature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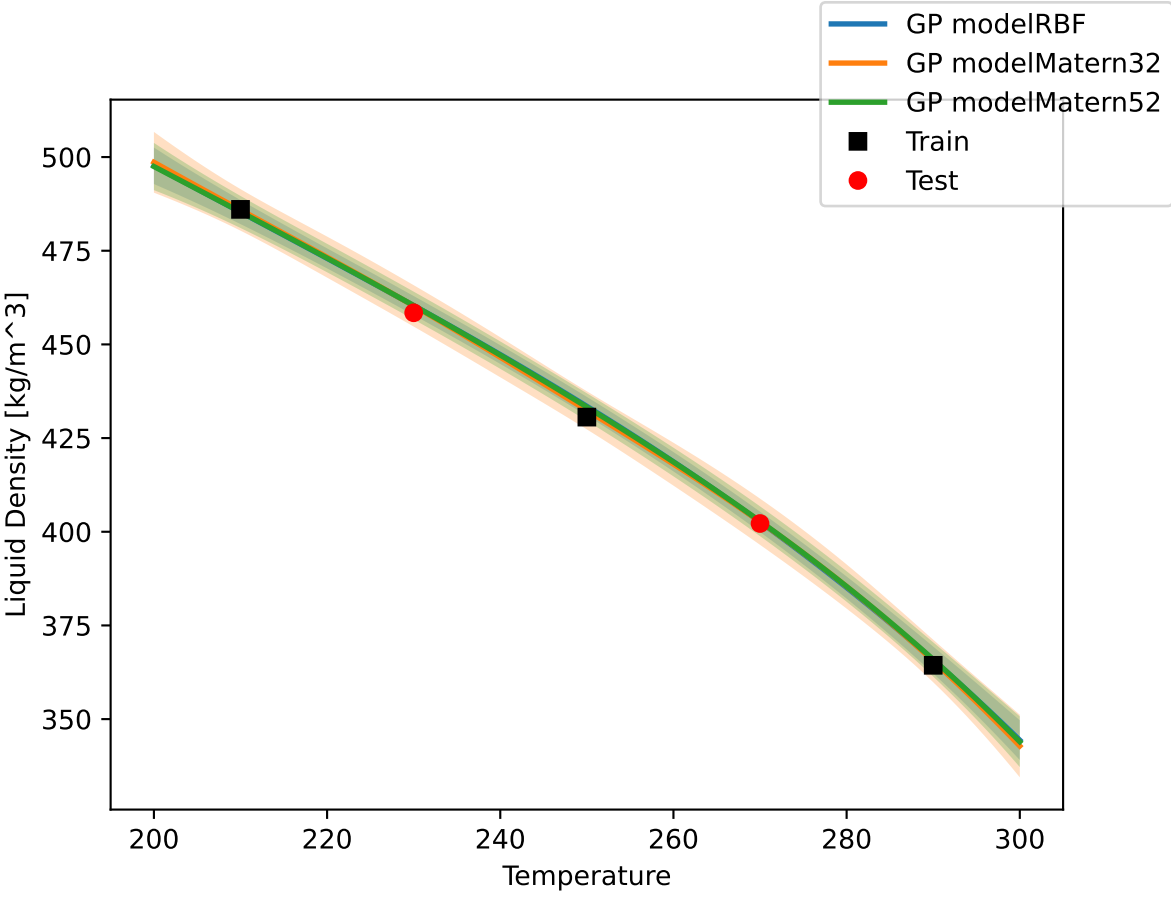
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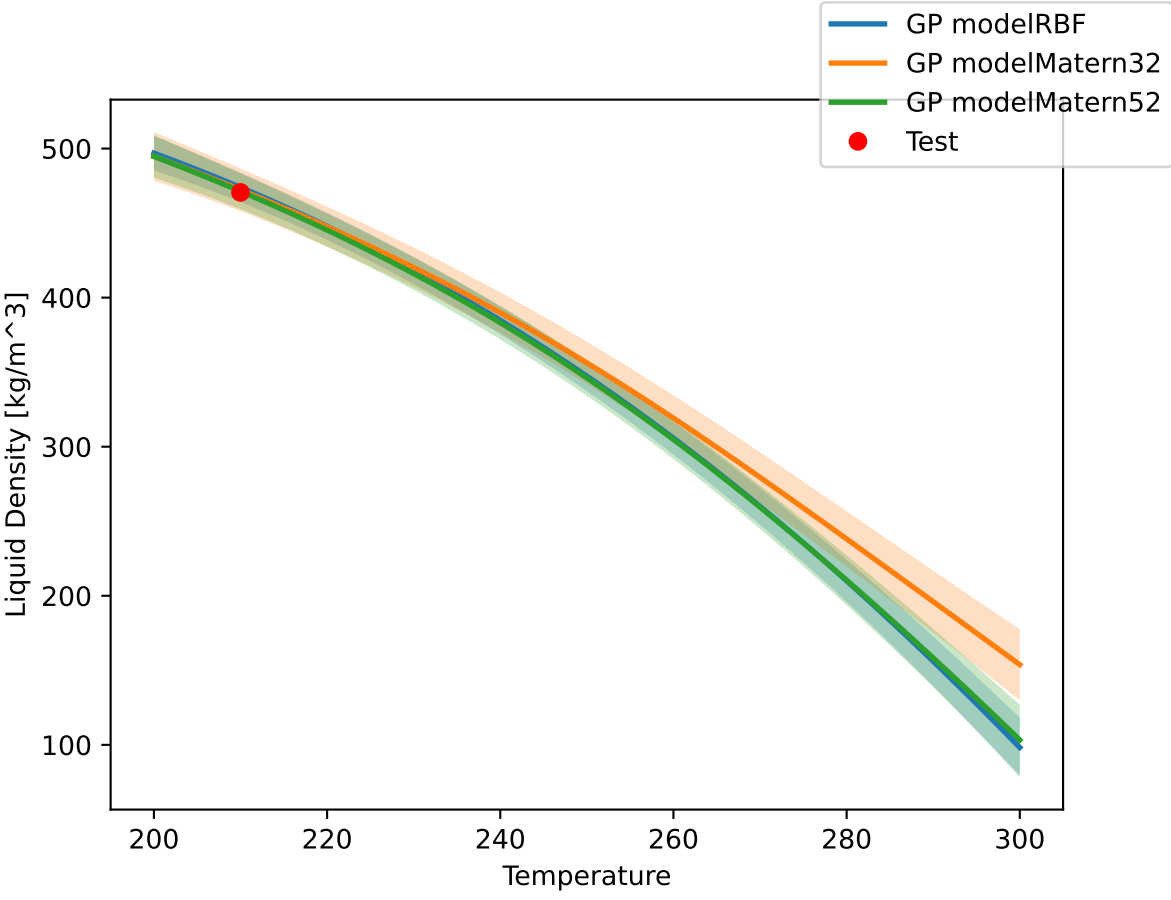
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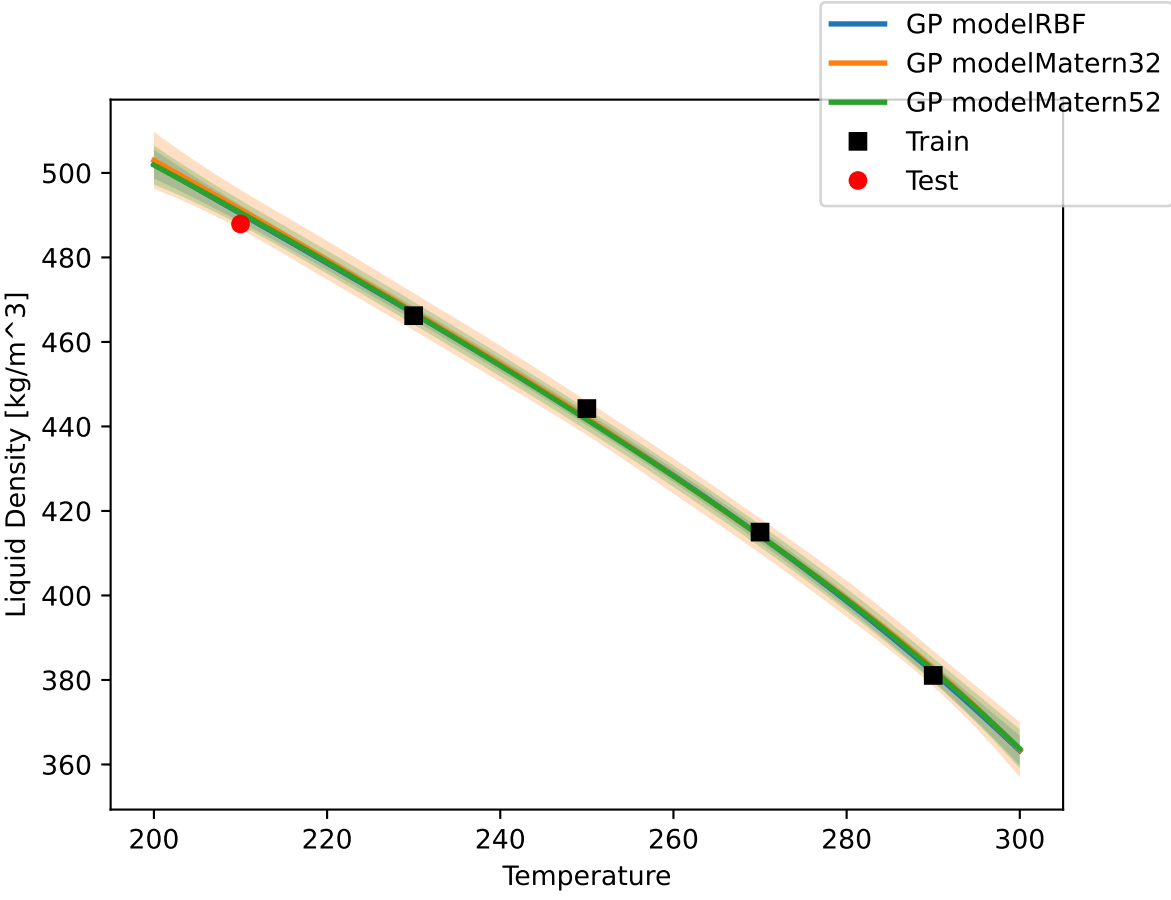
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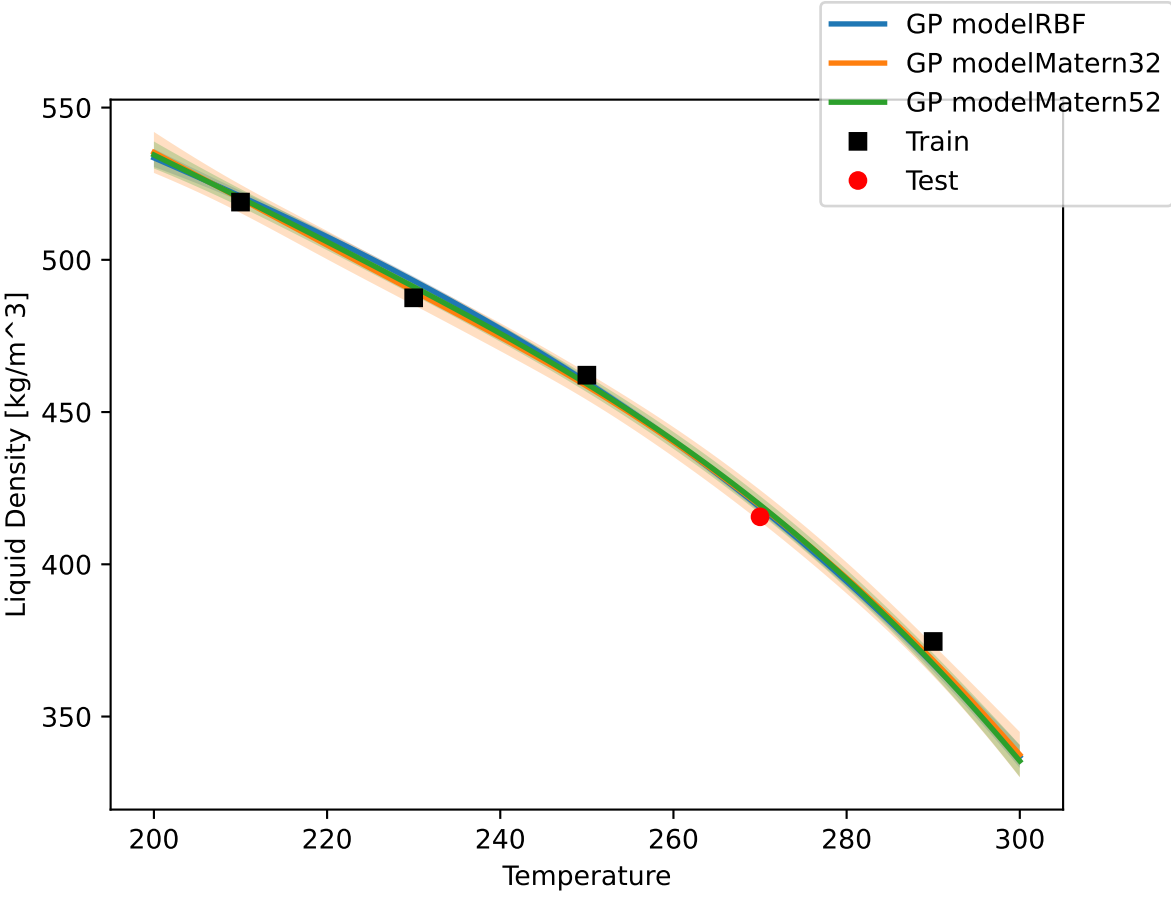
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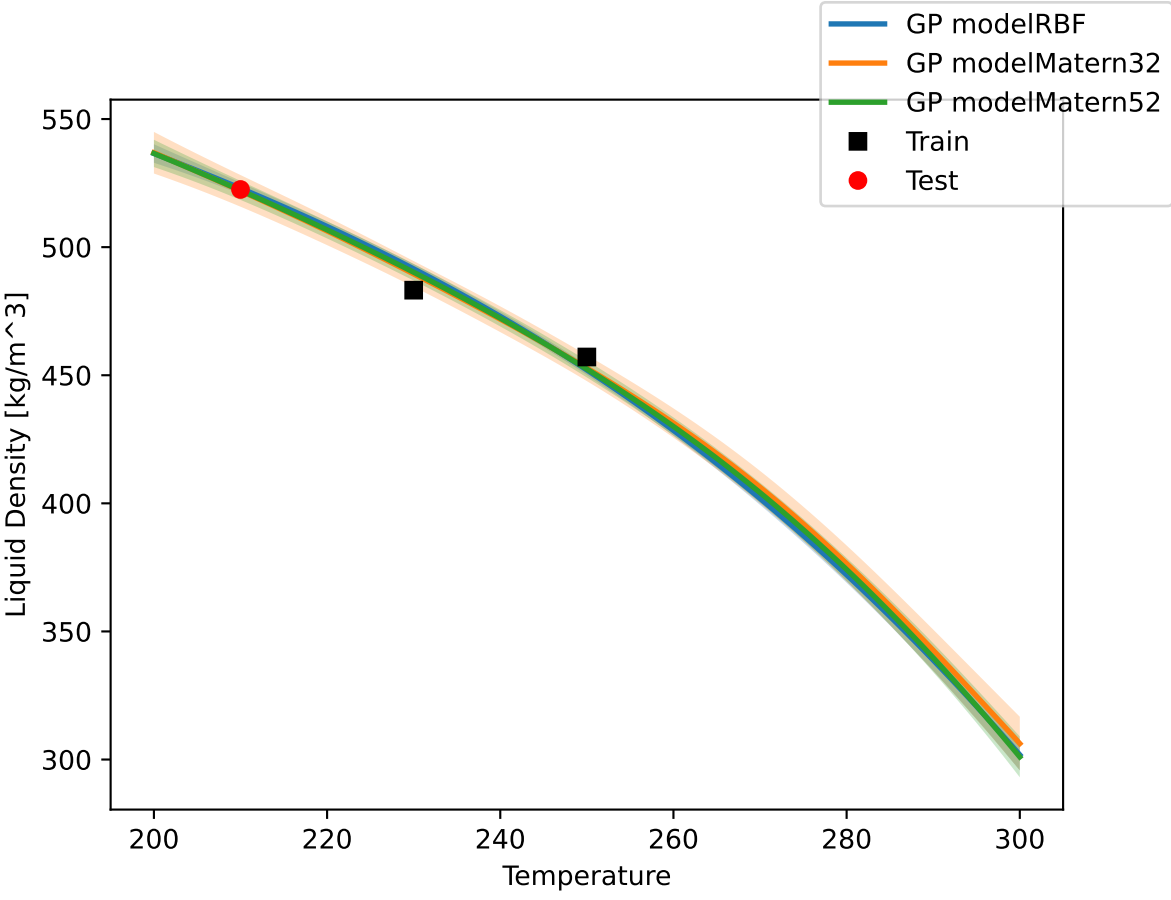
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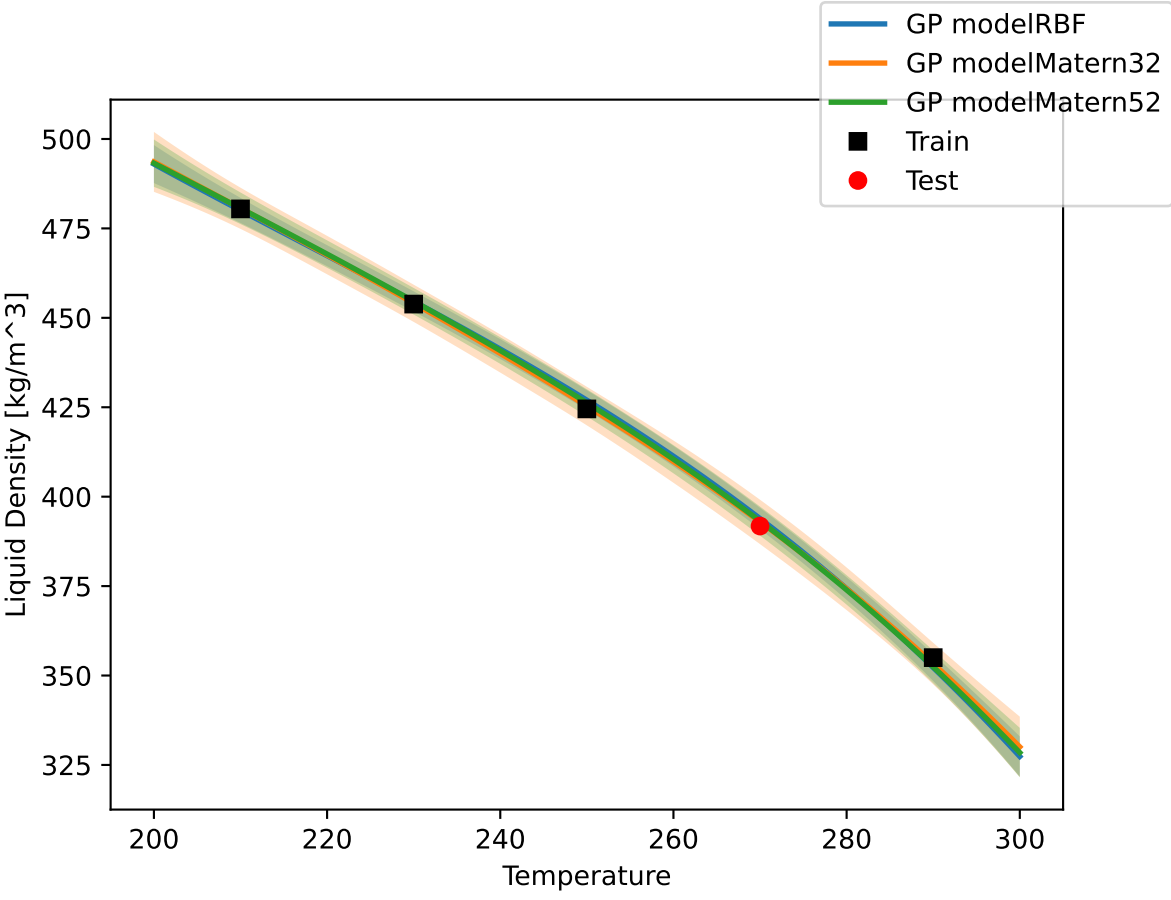
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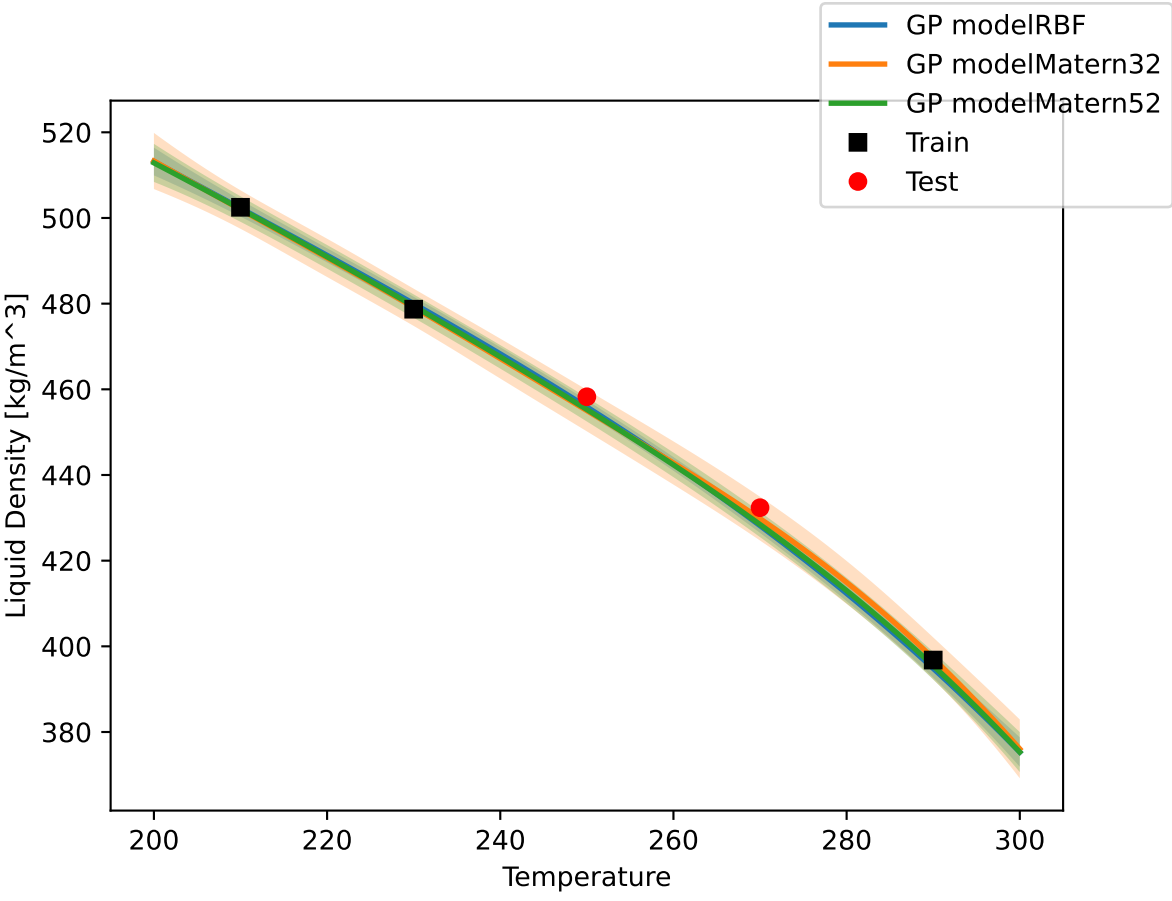
Temperature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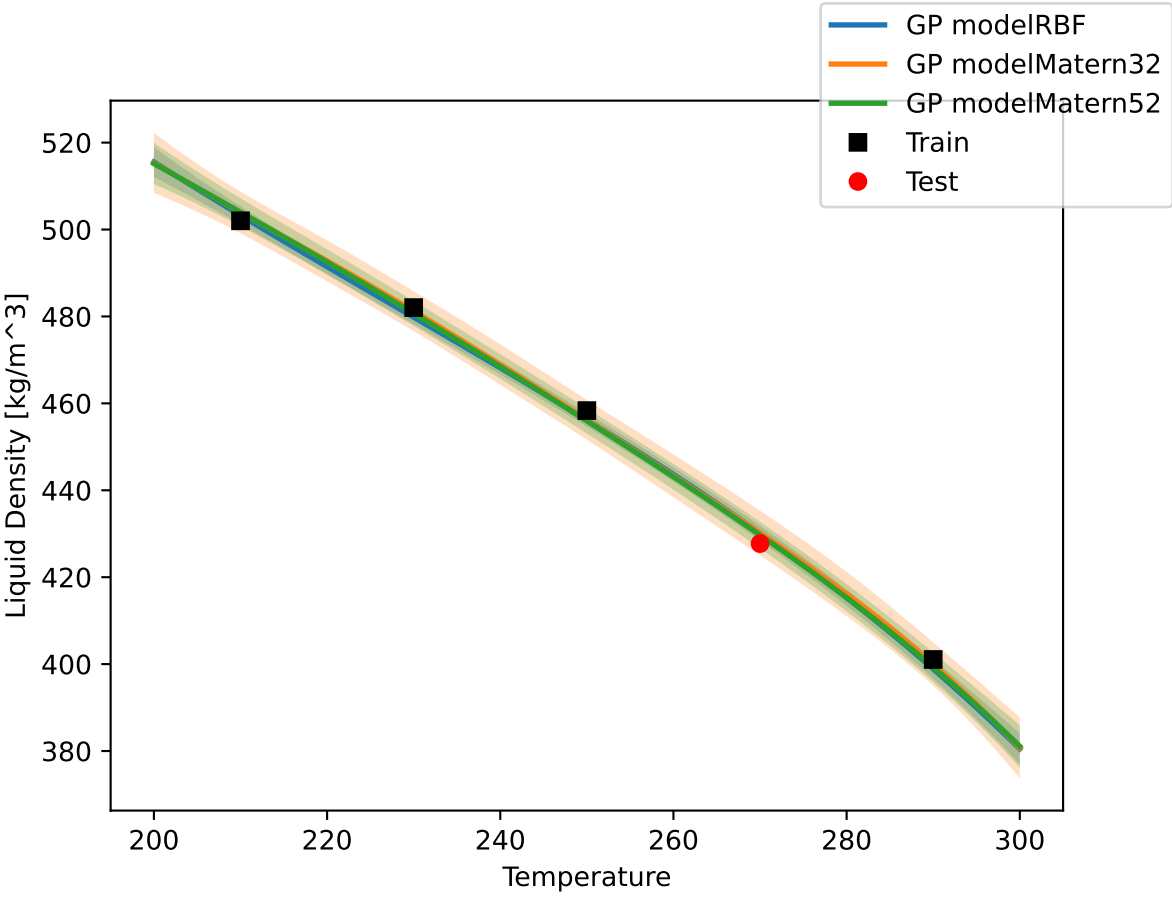
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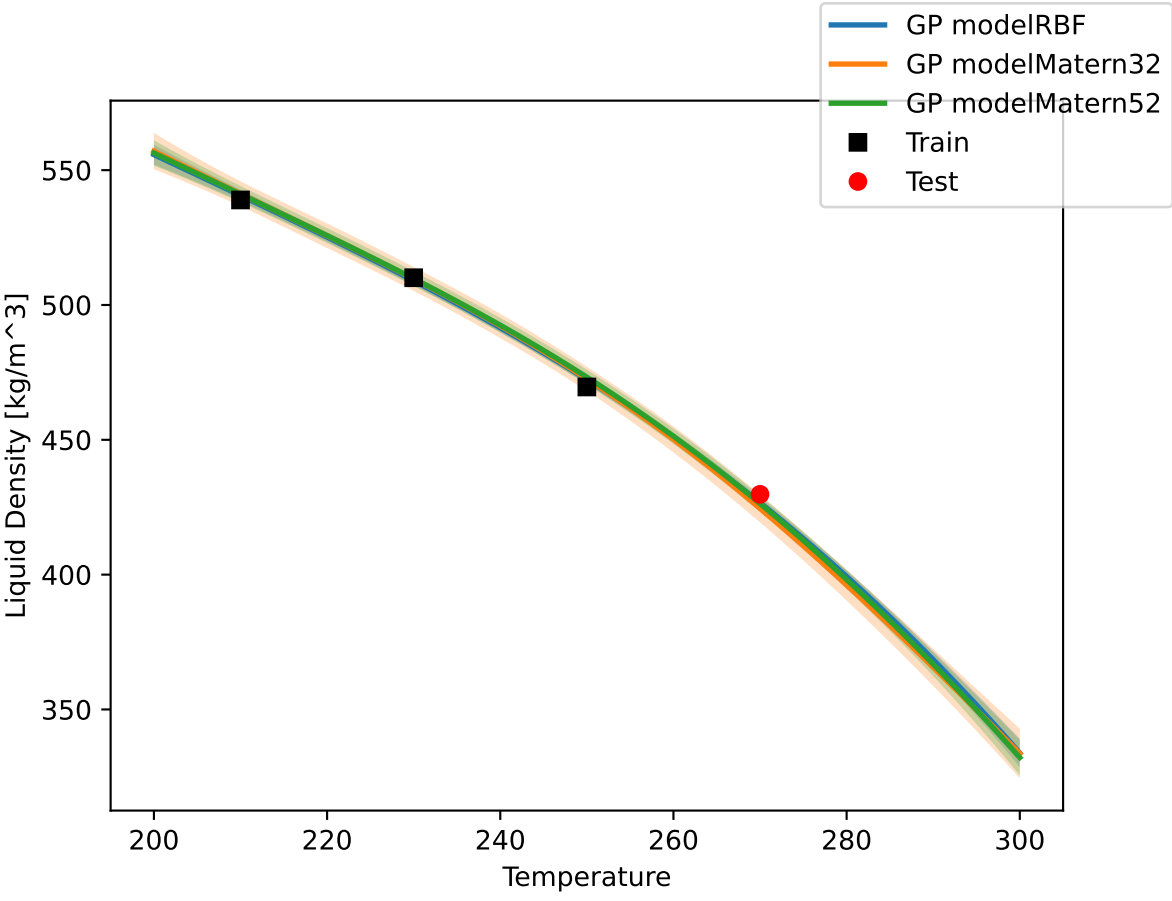
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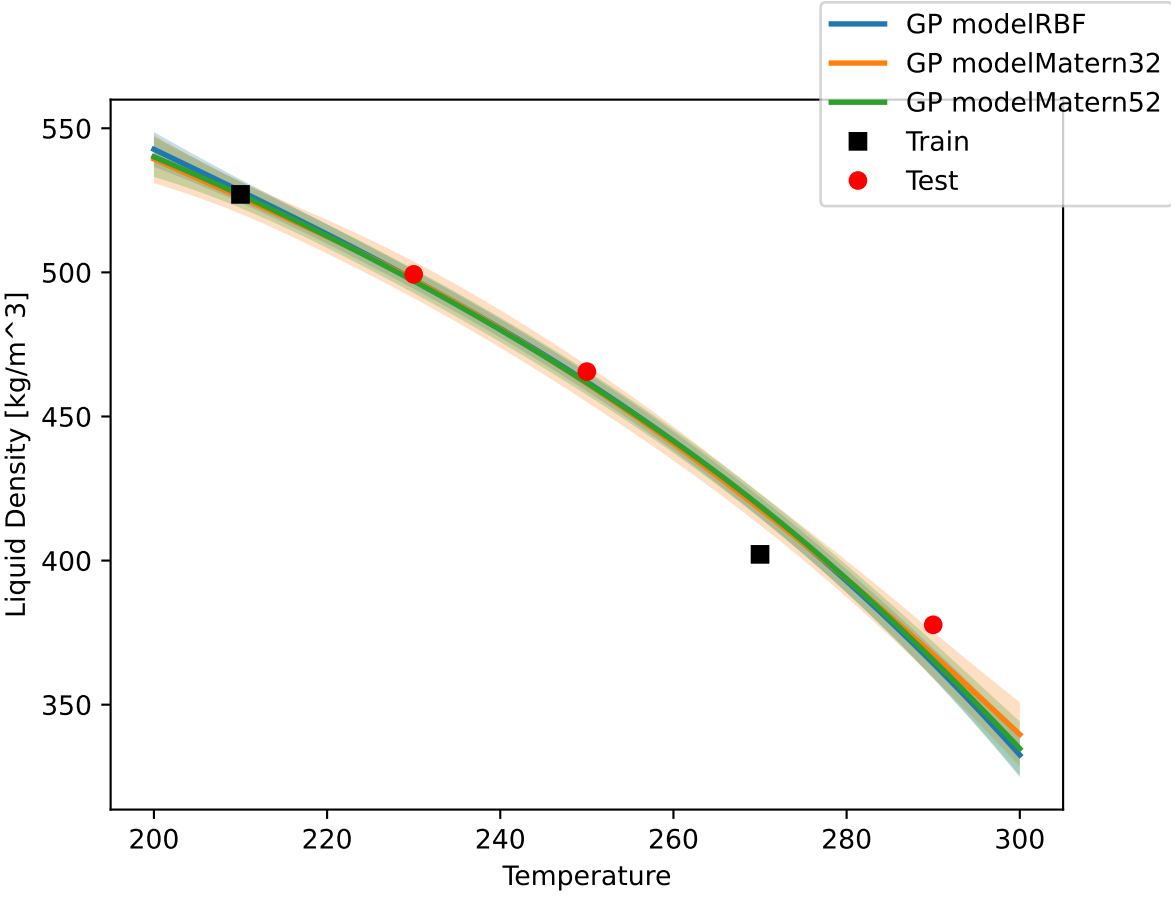
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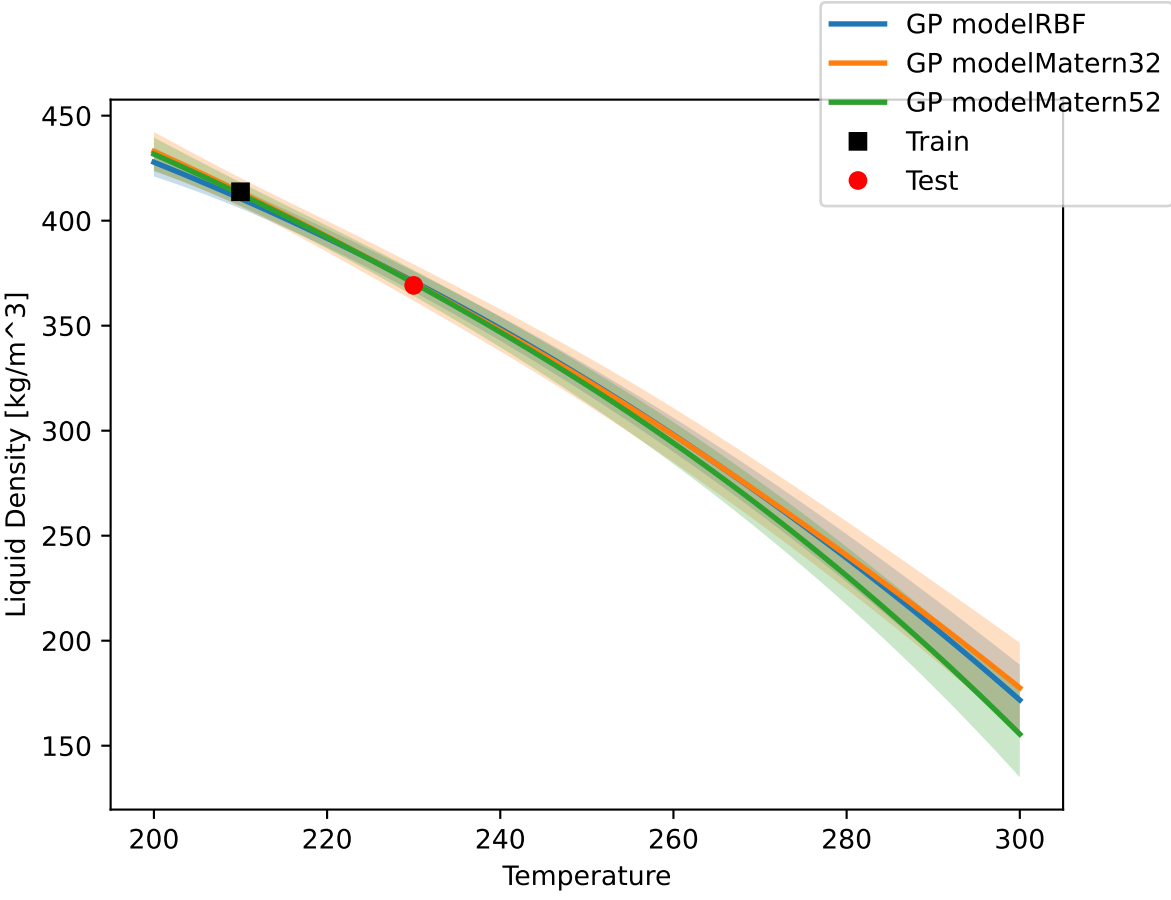
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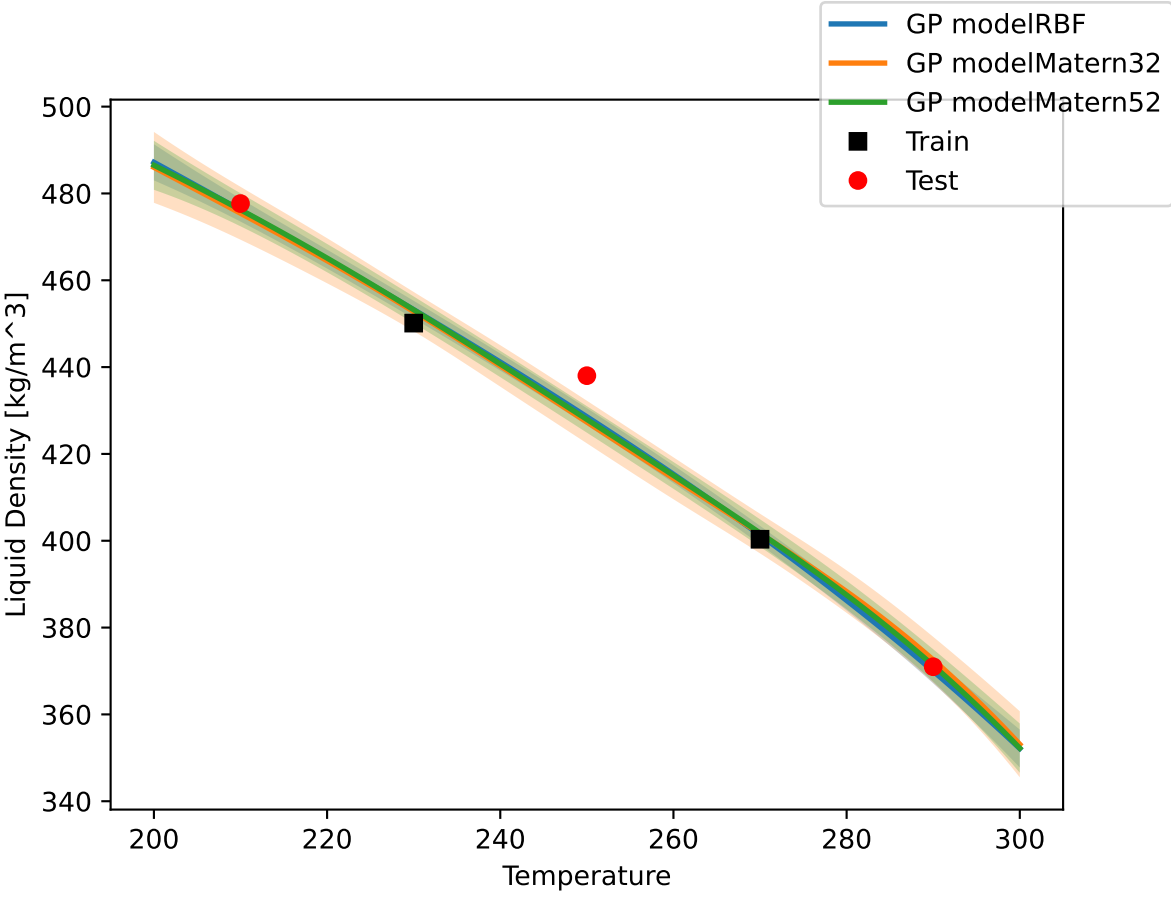
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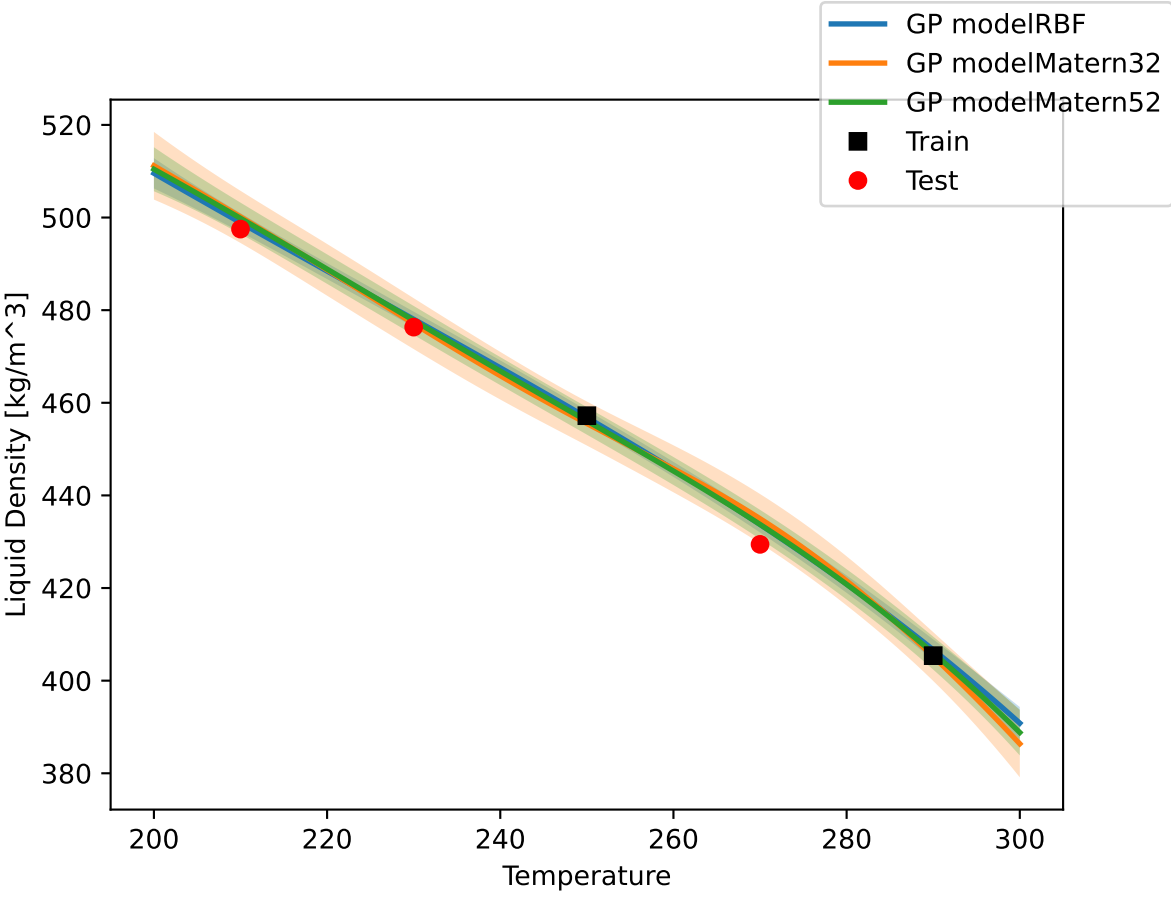
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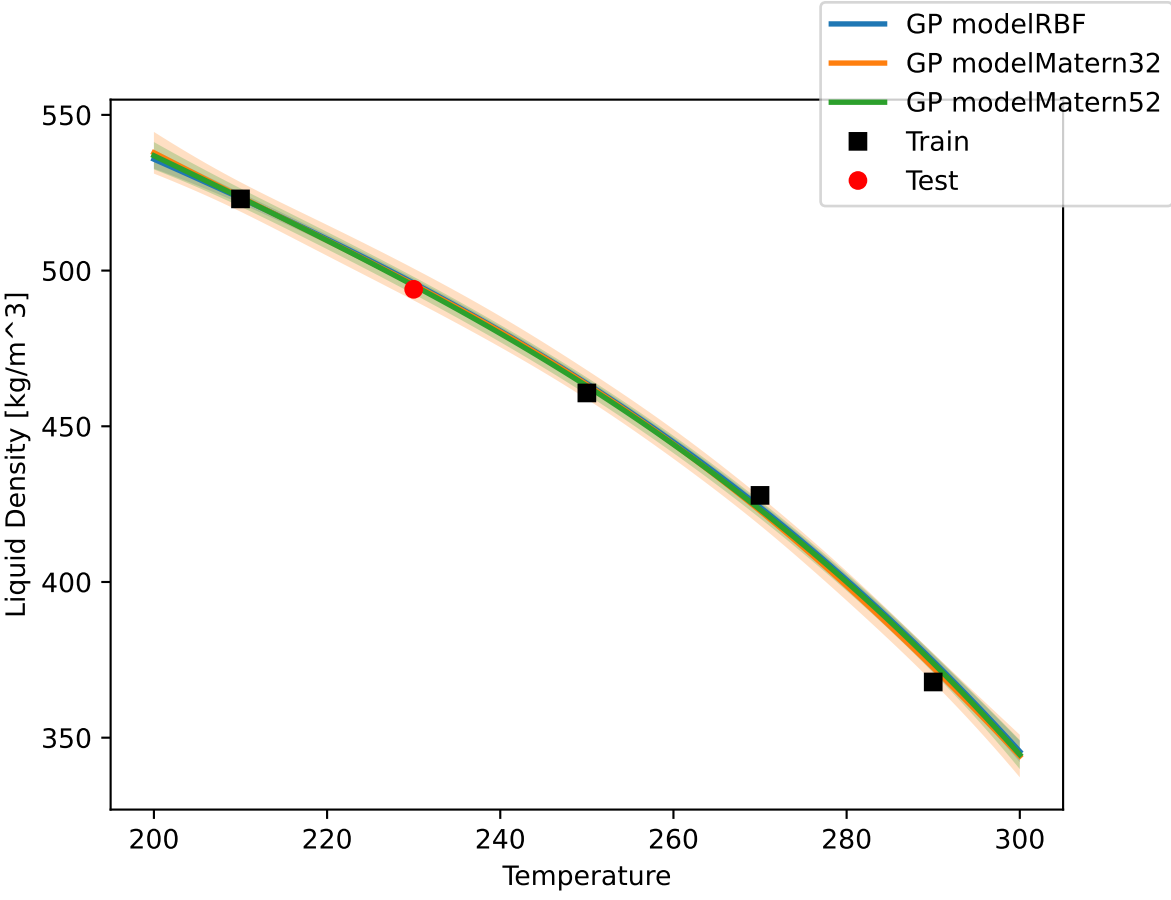
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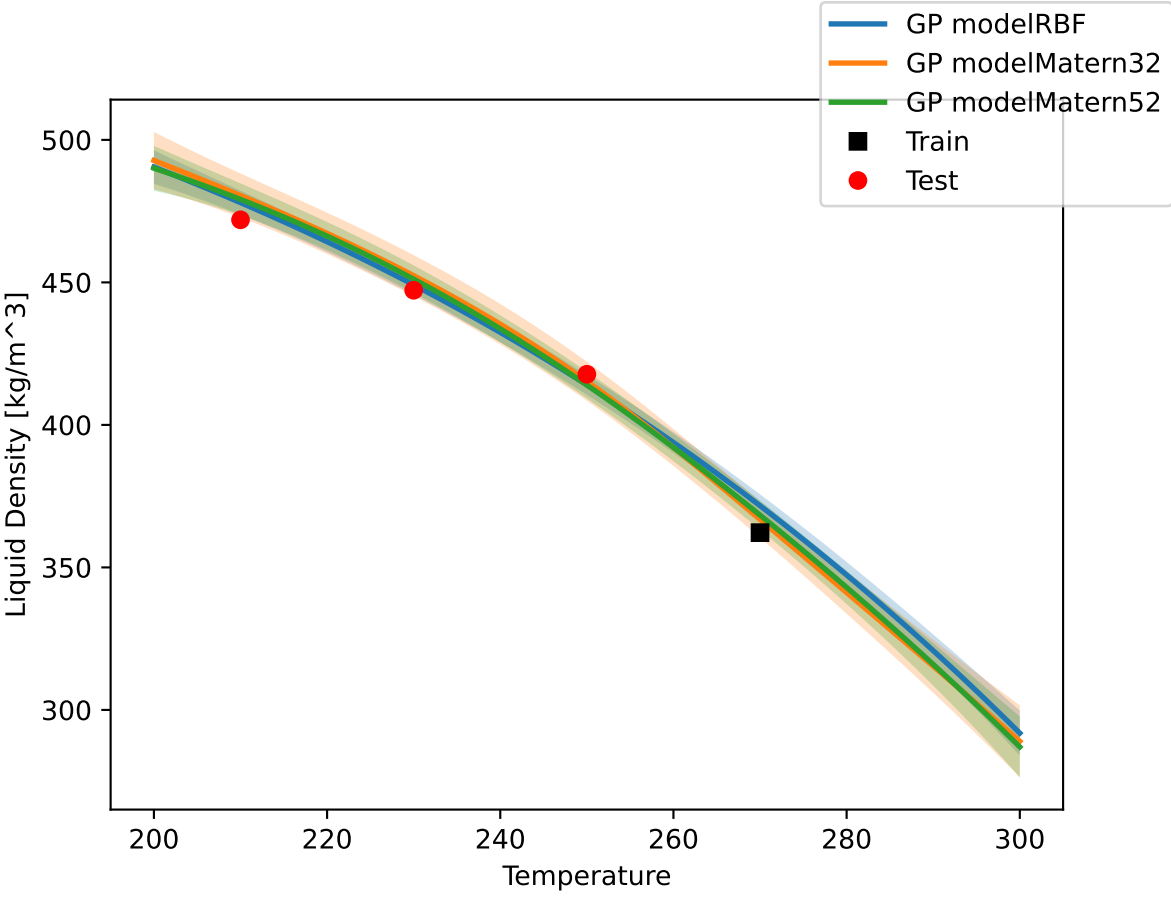
Temperature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Liquid Density [kg/m^3]
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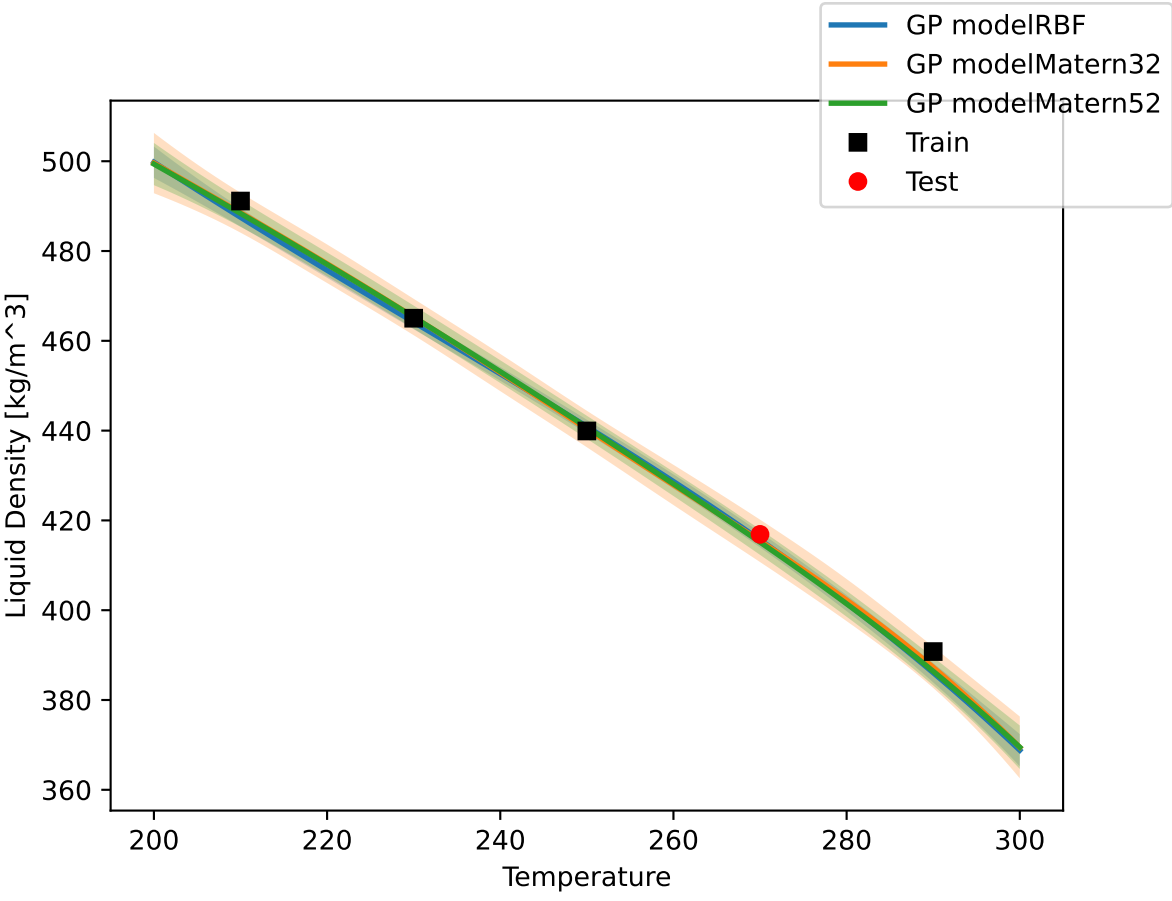
Temperature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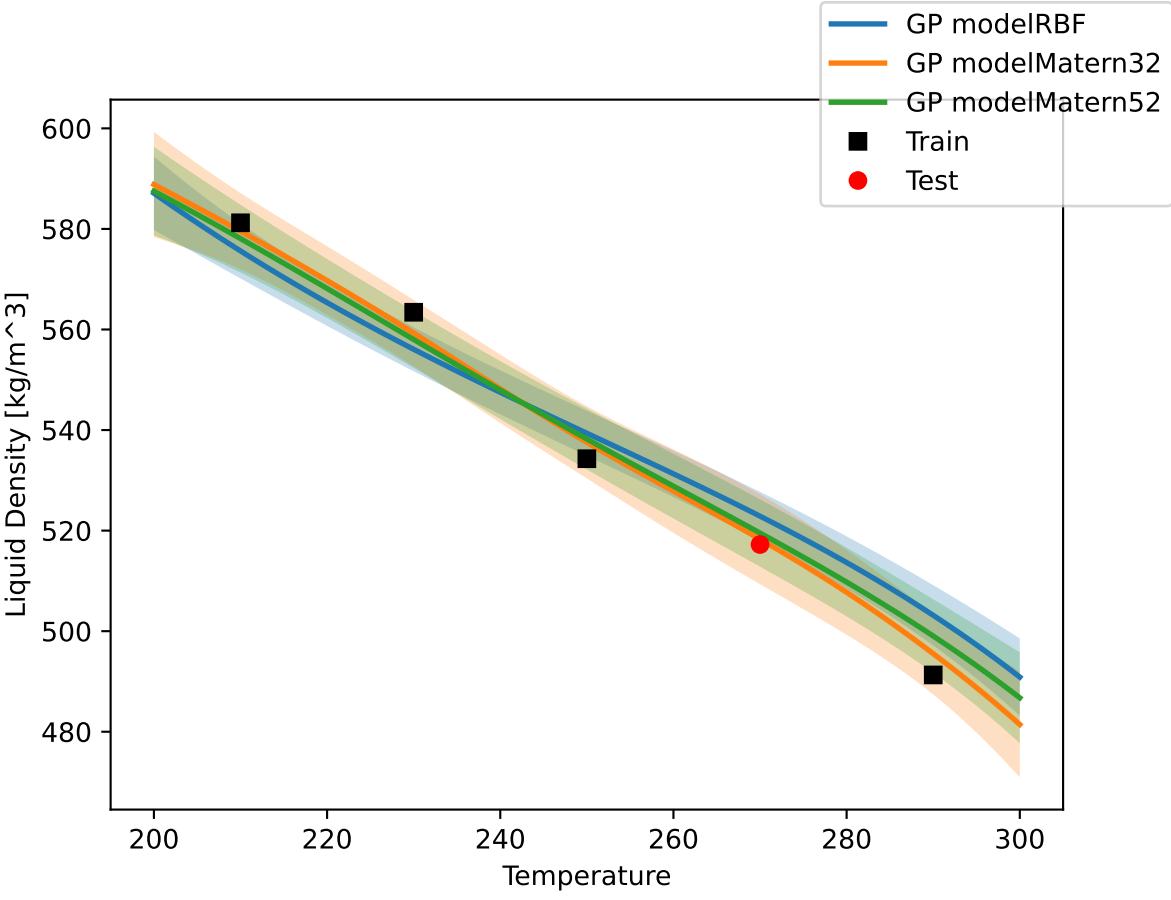
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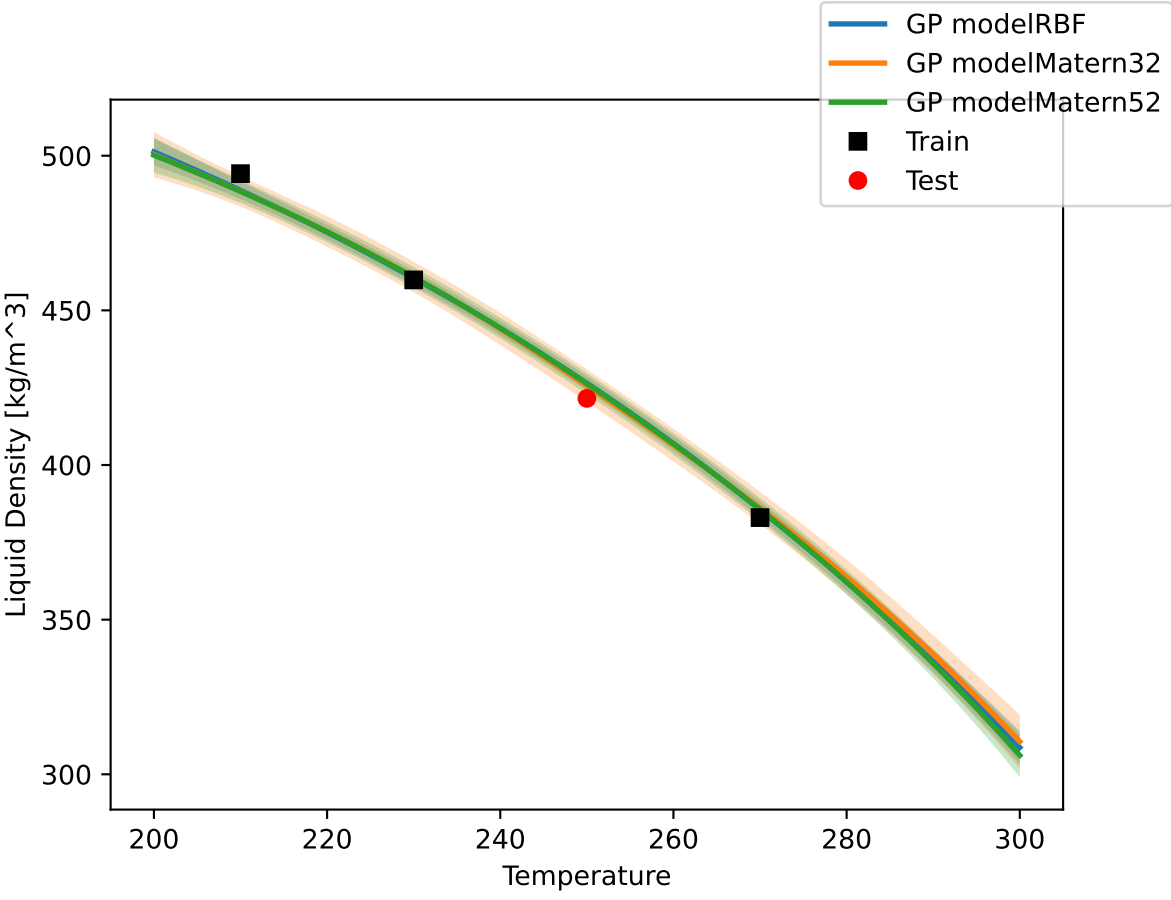
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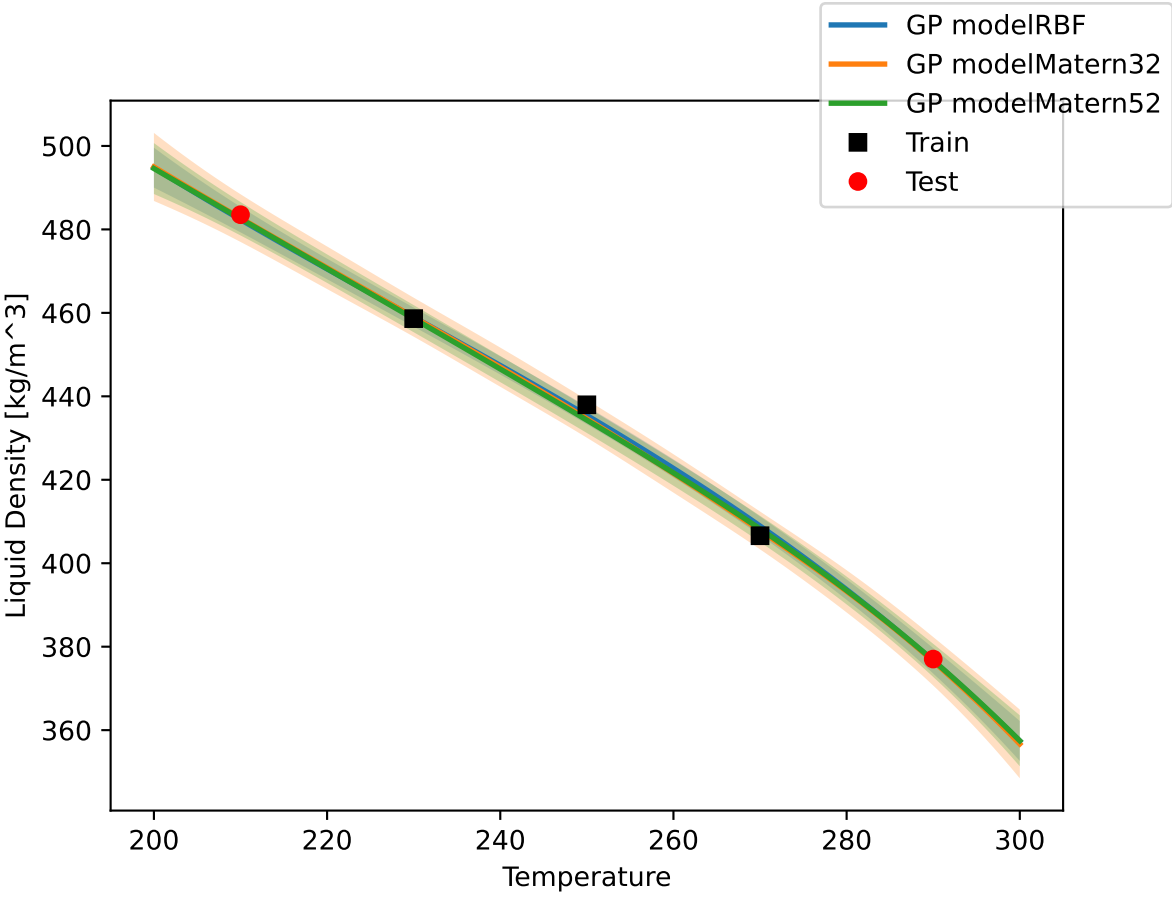
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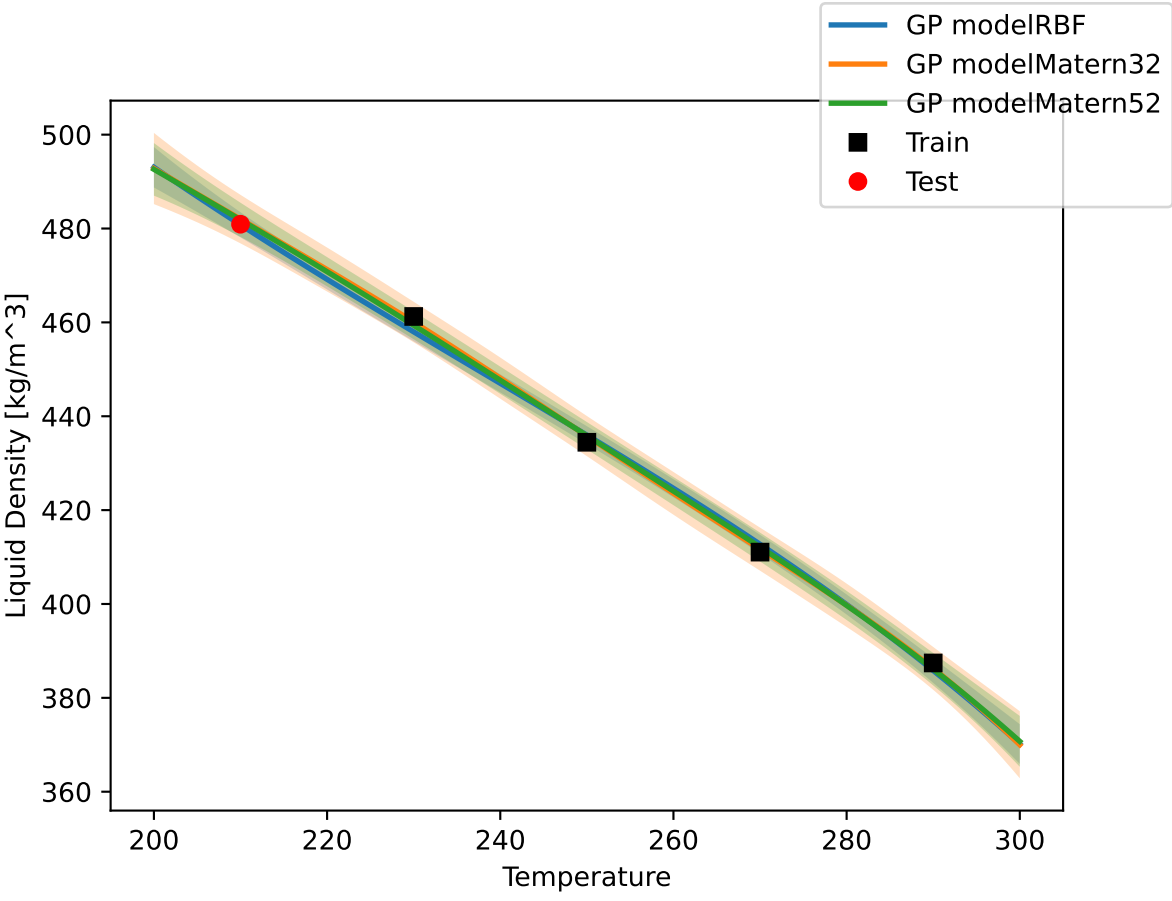
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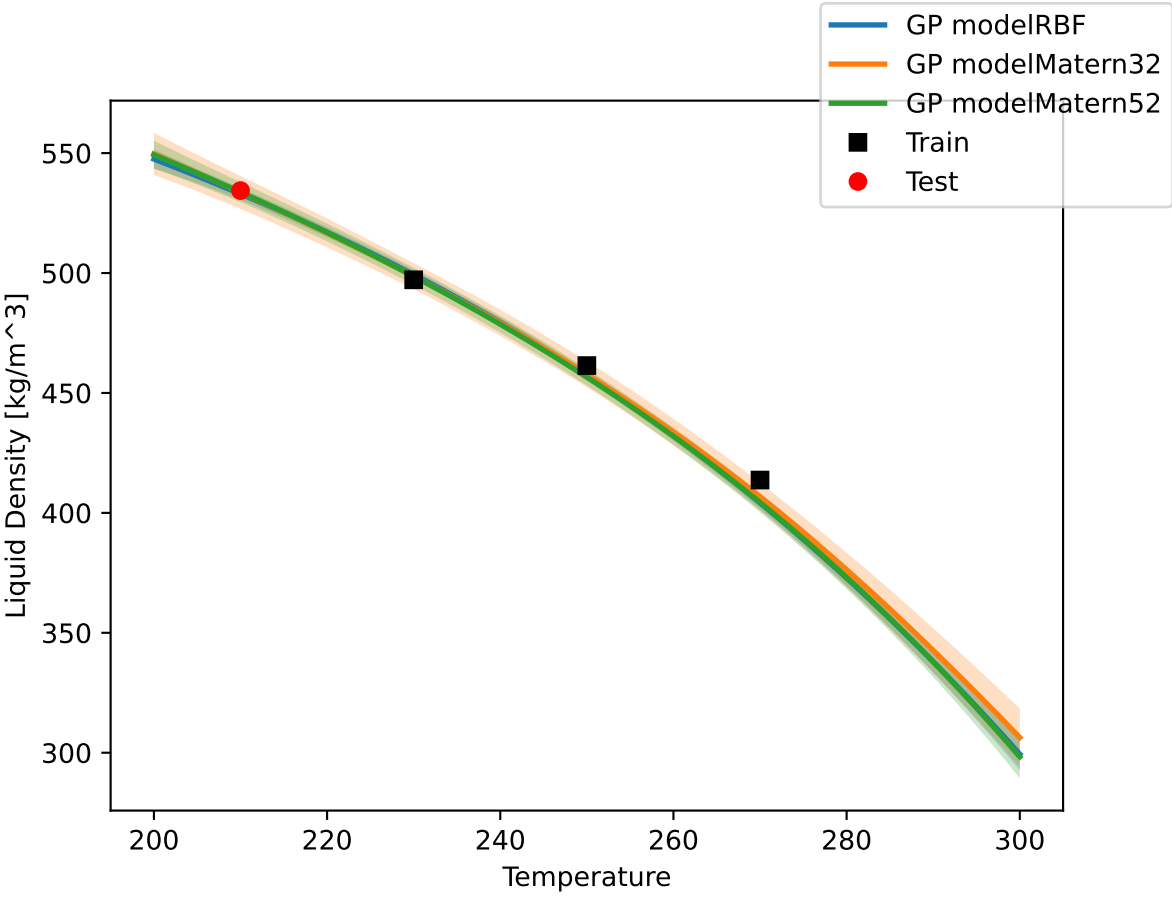
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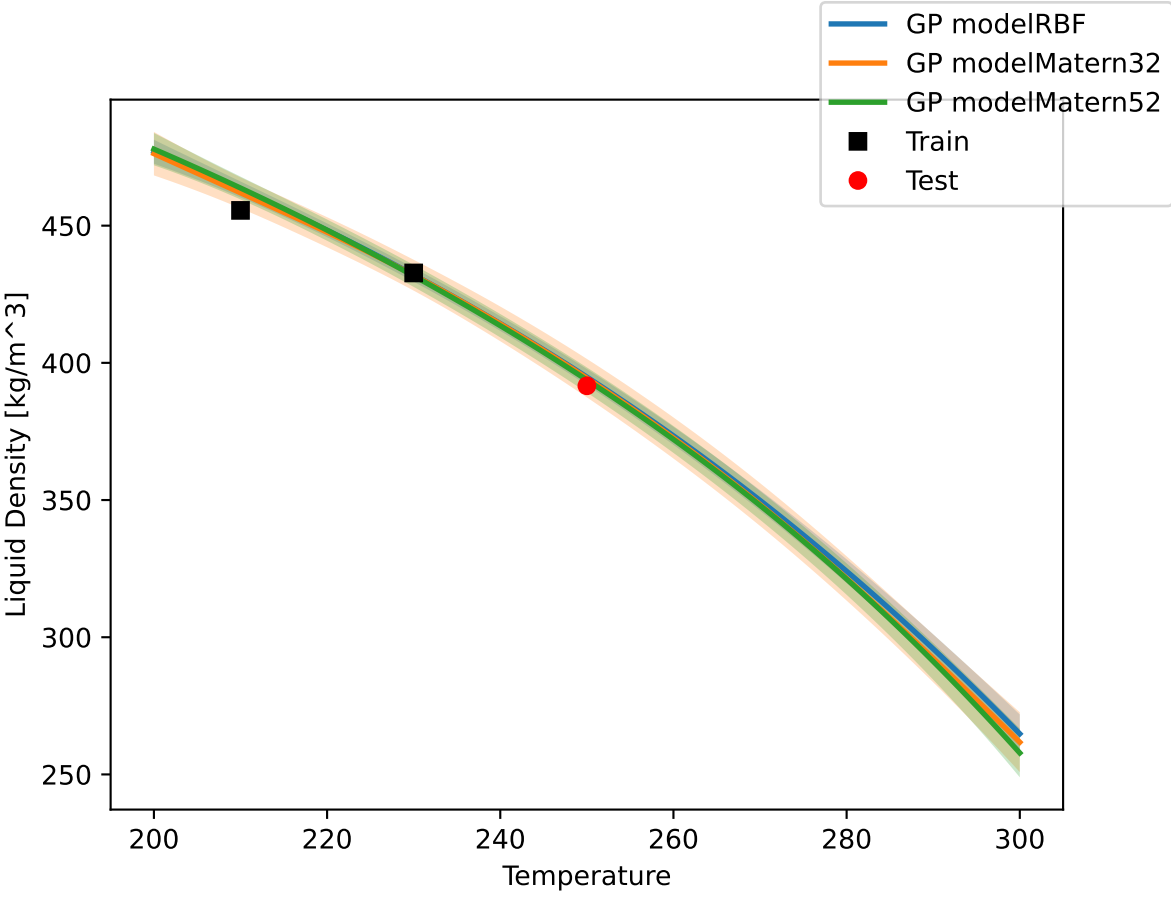
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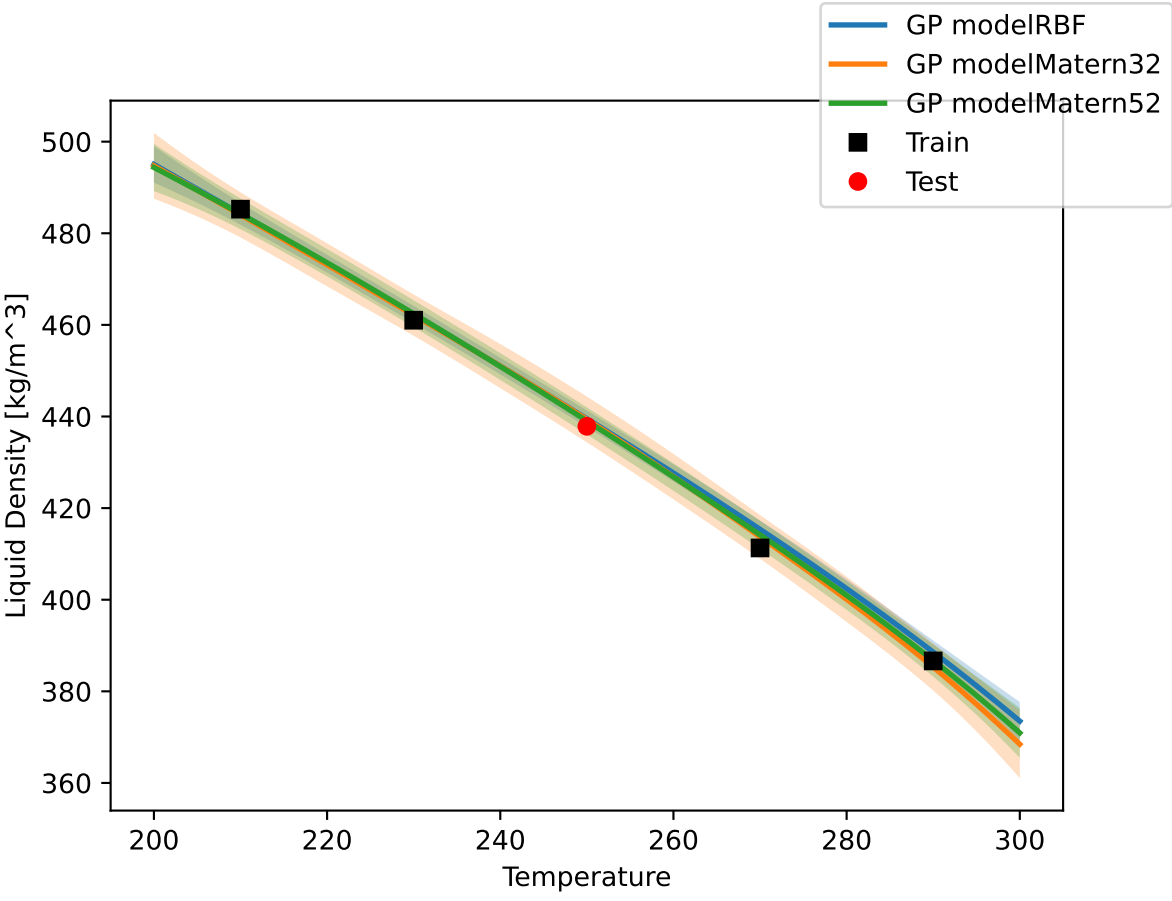
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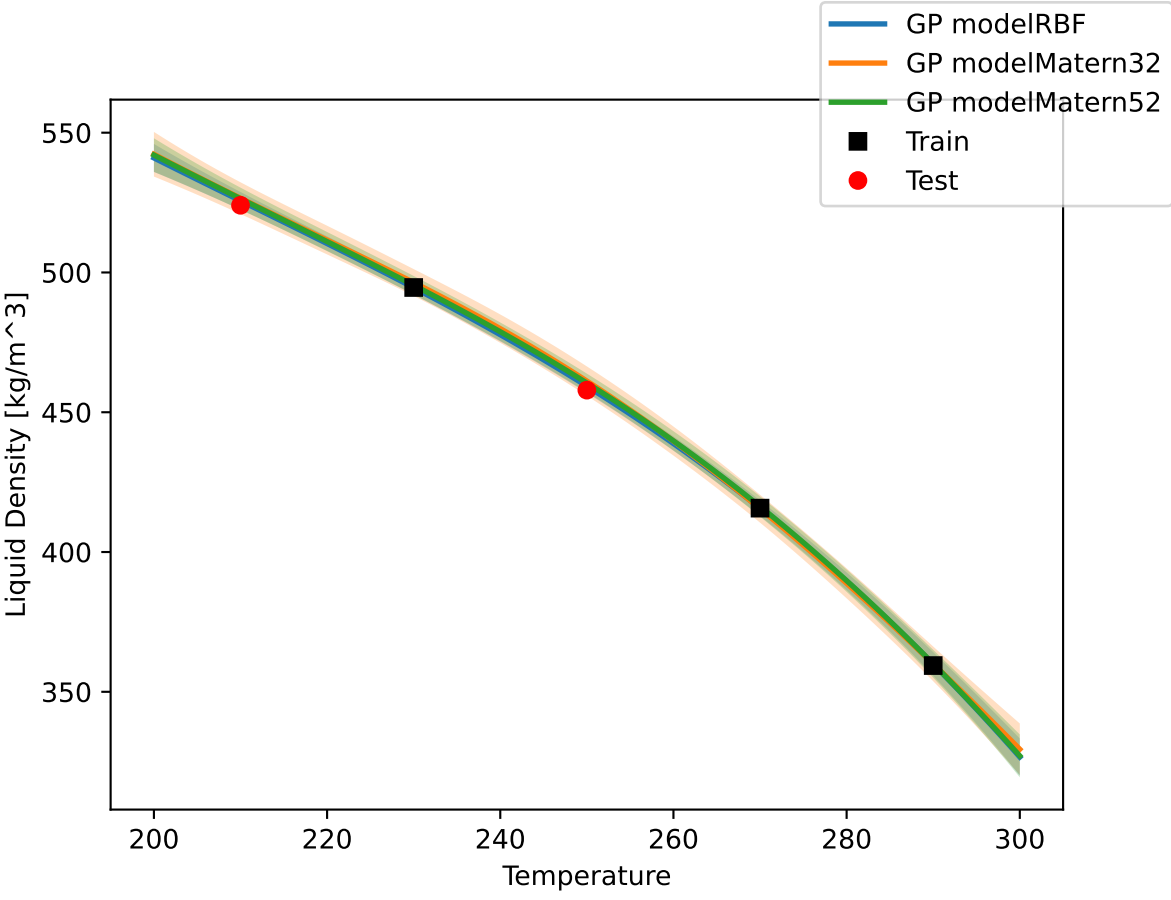
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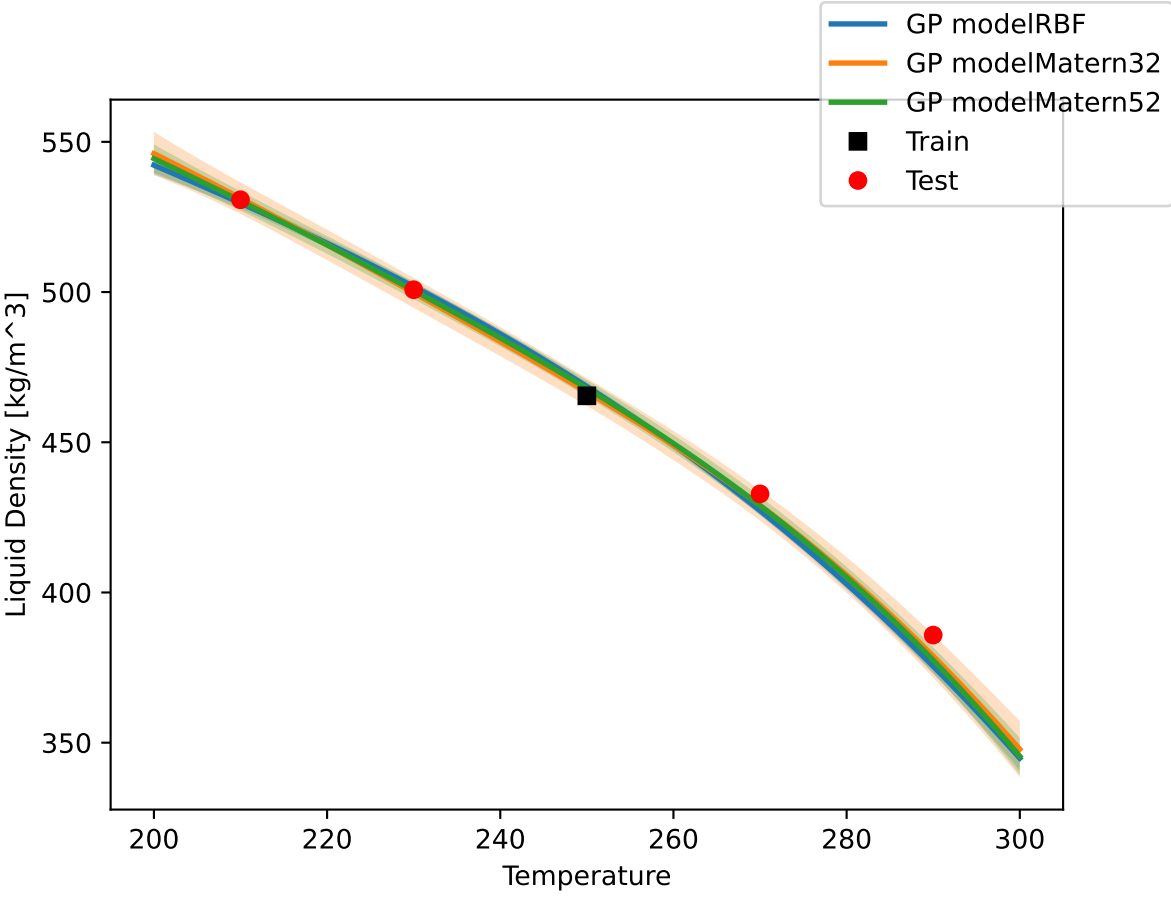
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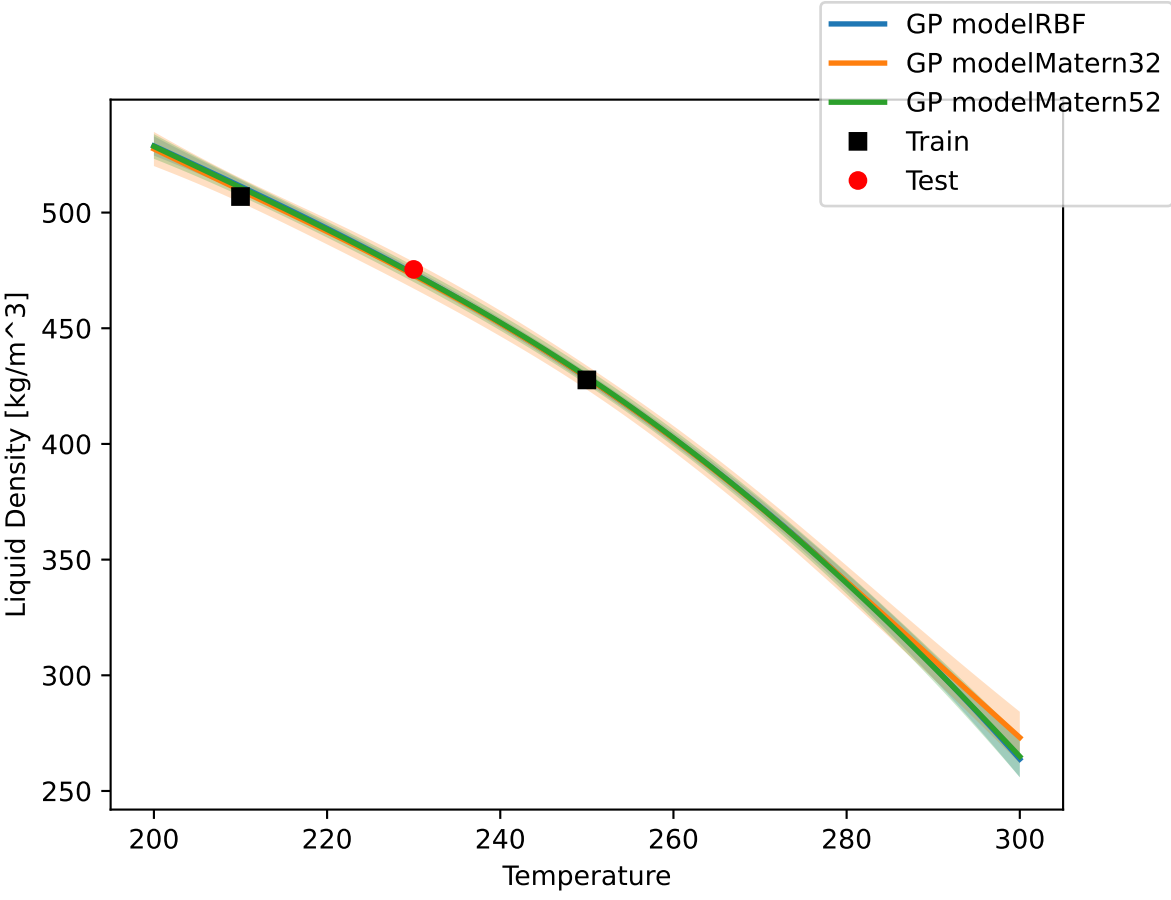
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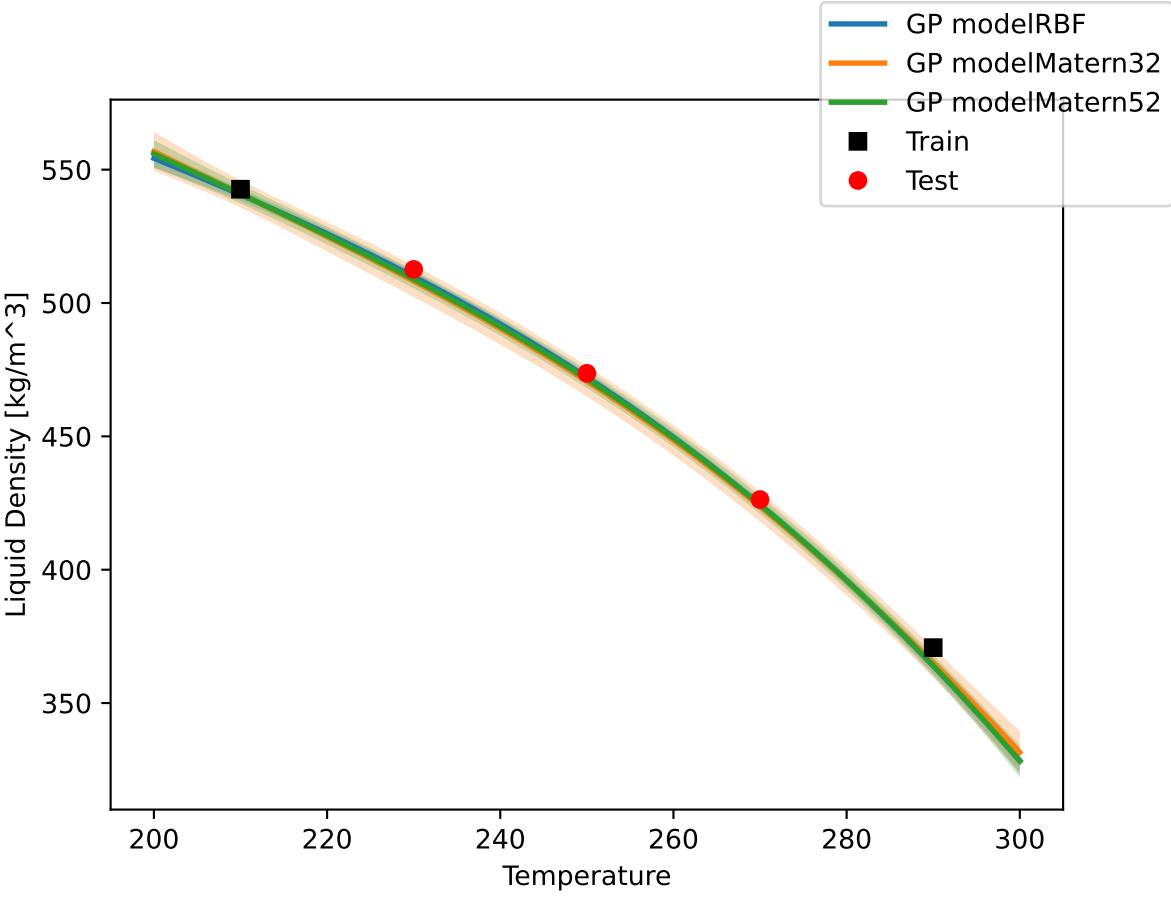
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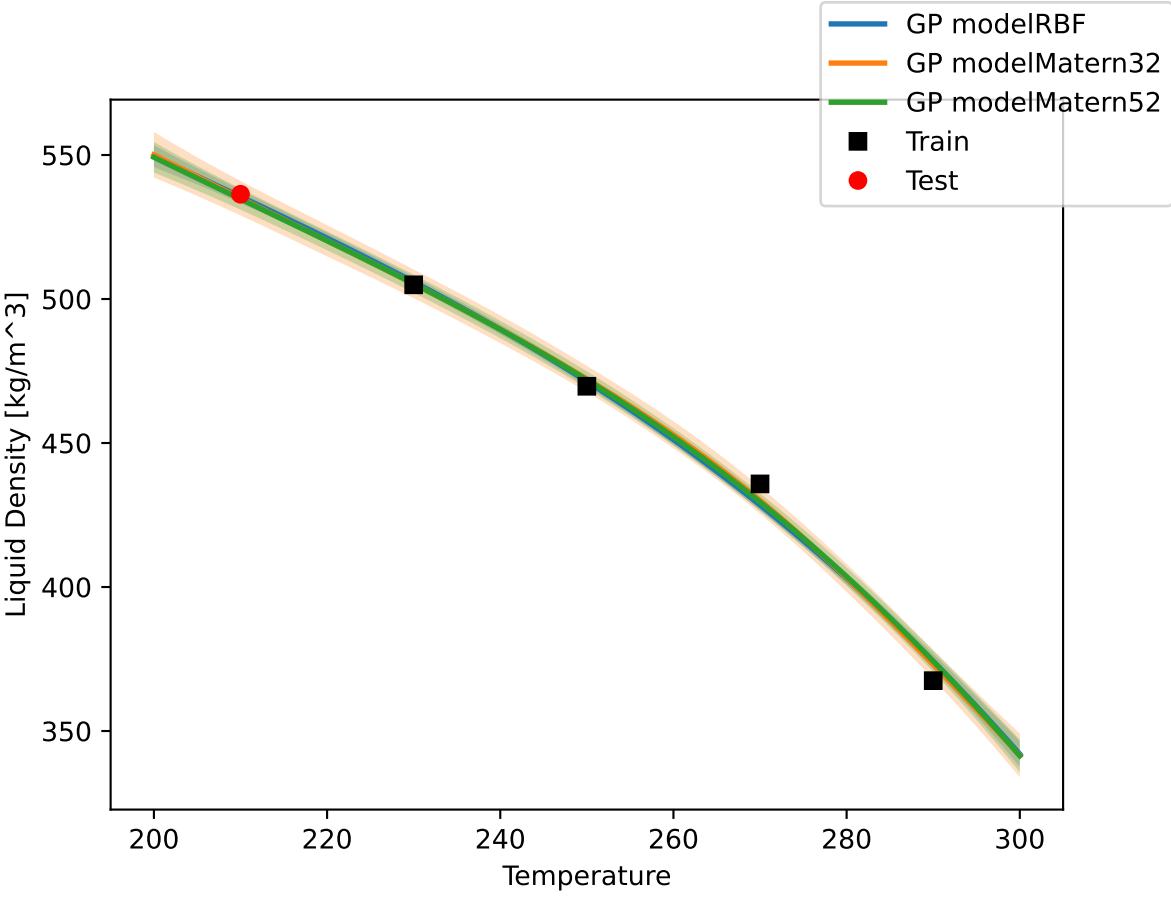
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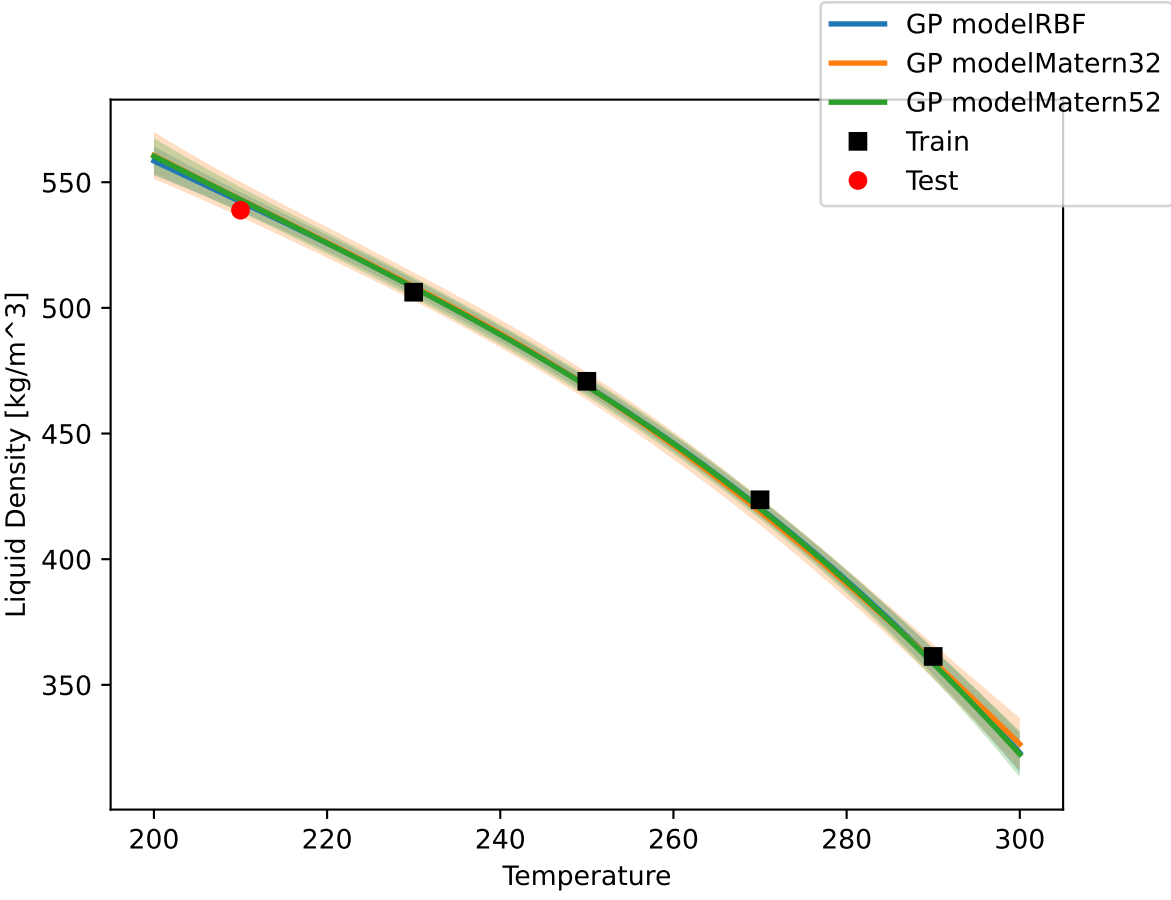
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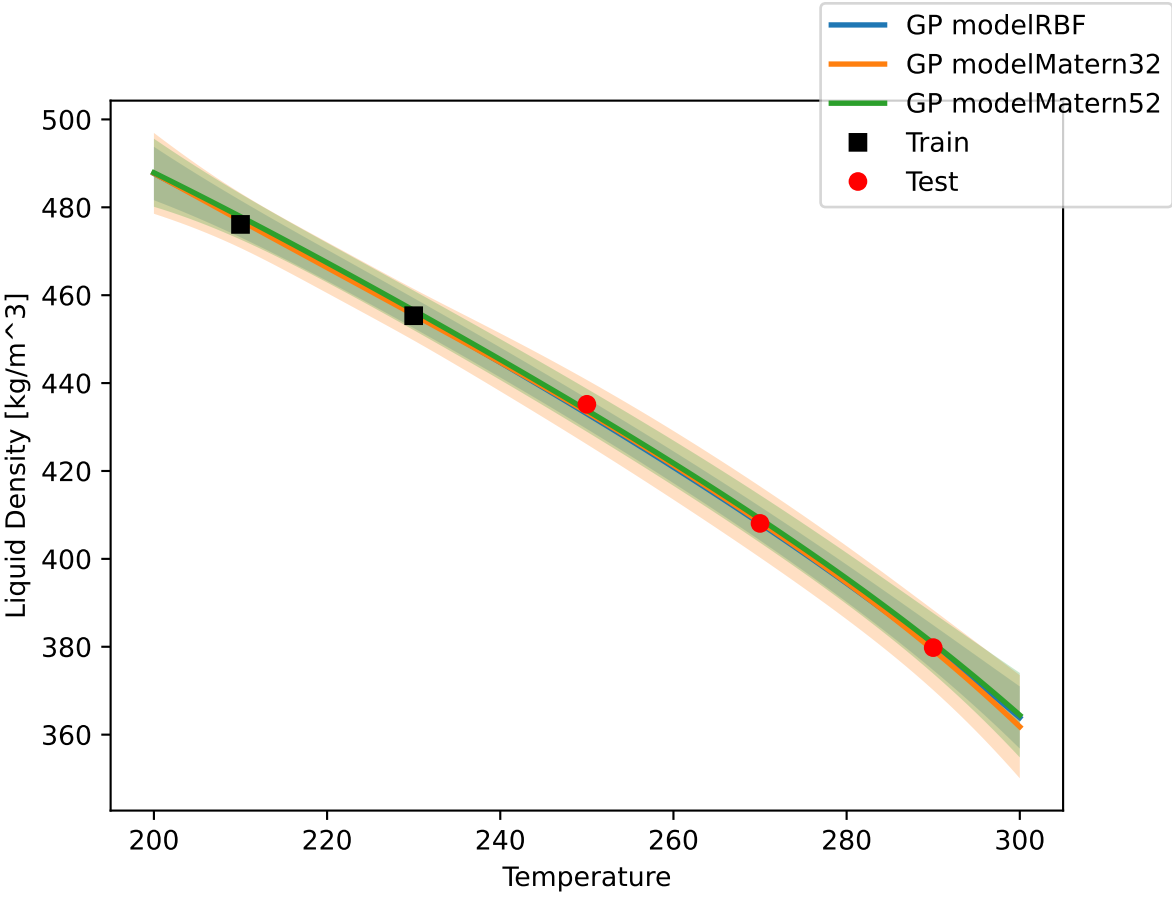
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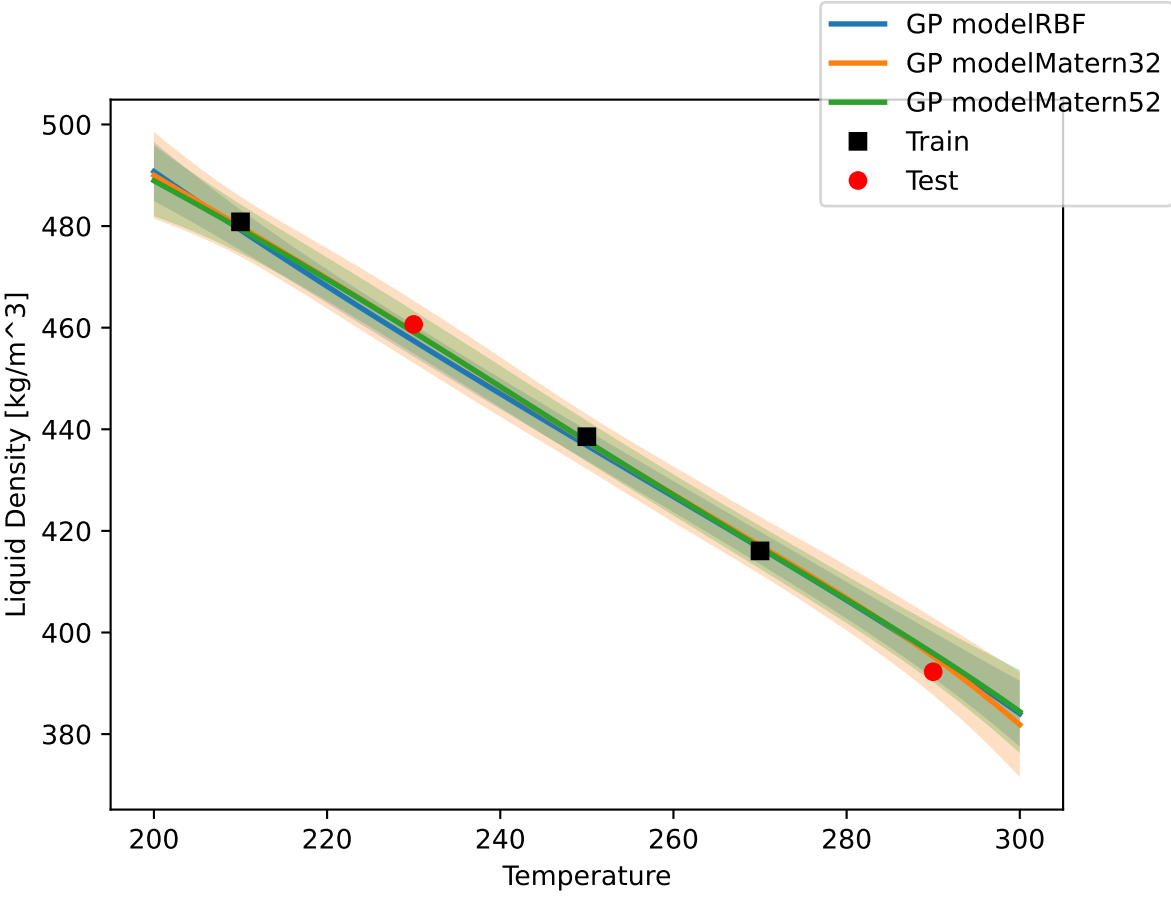
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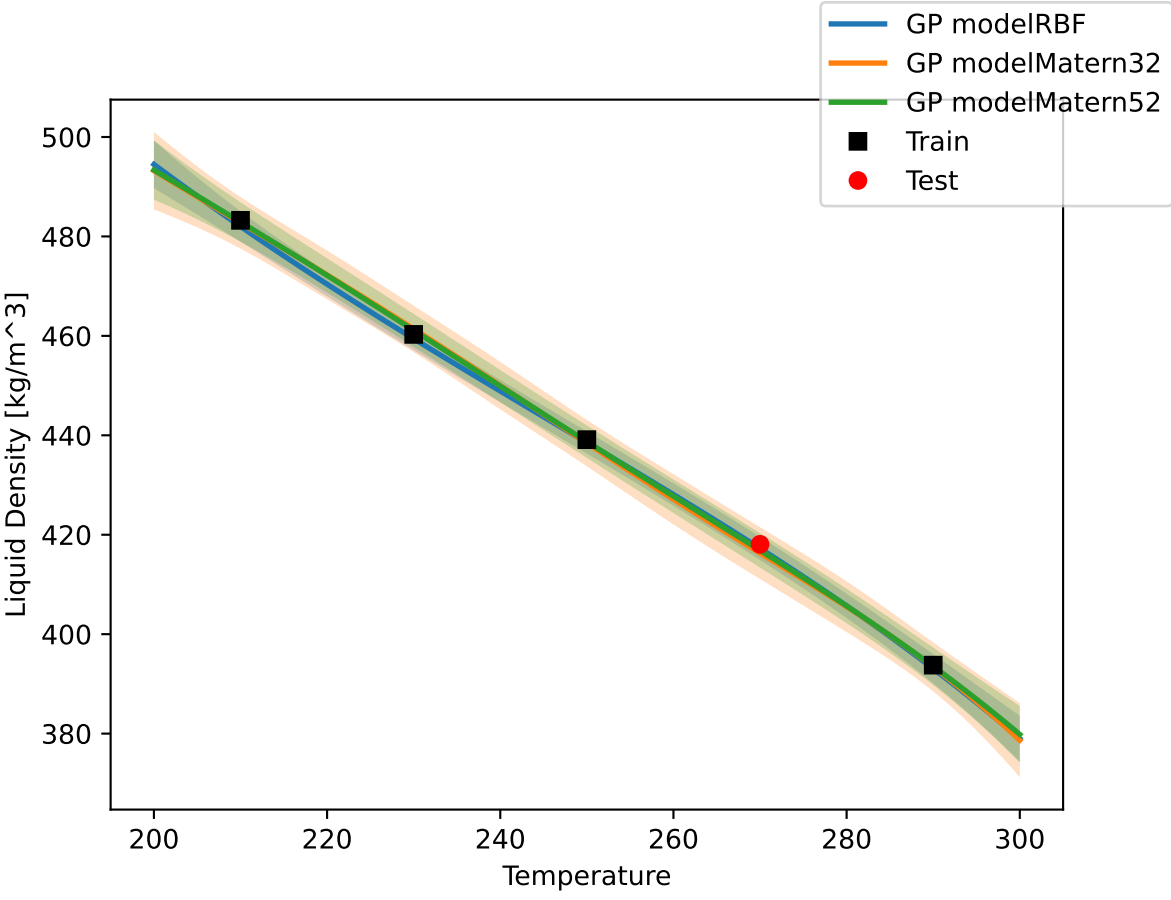
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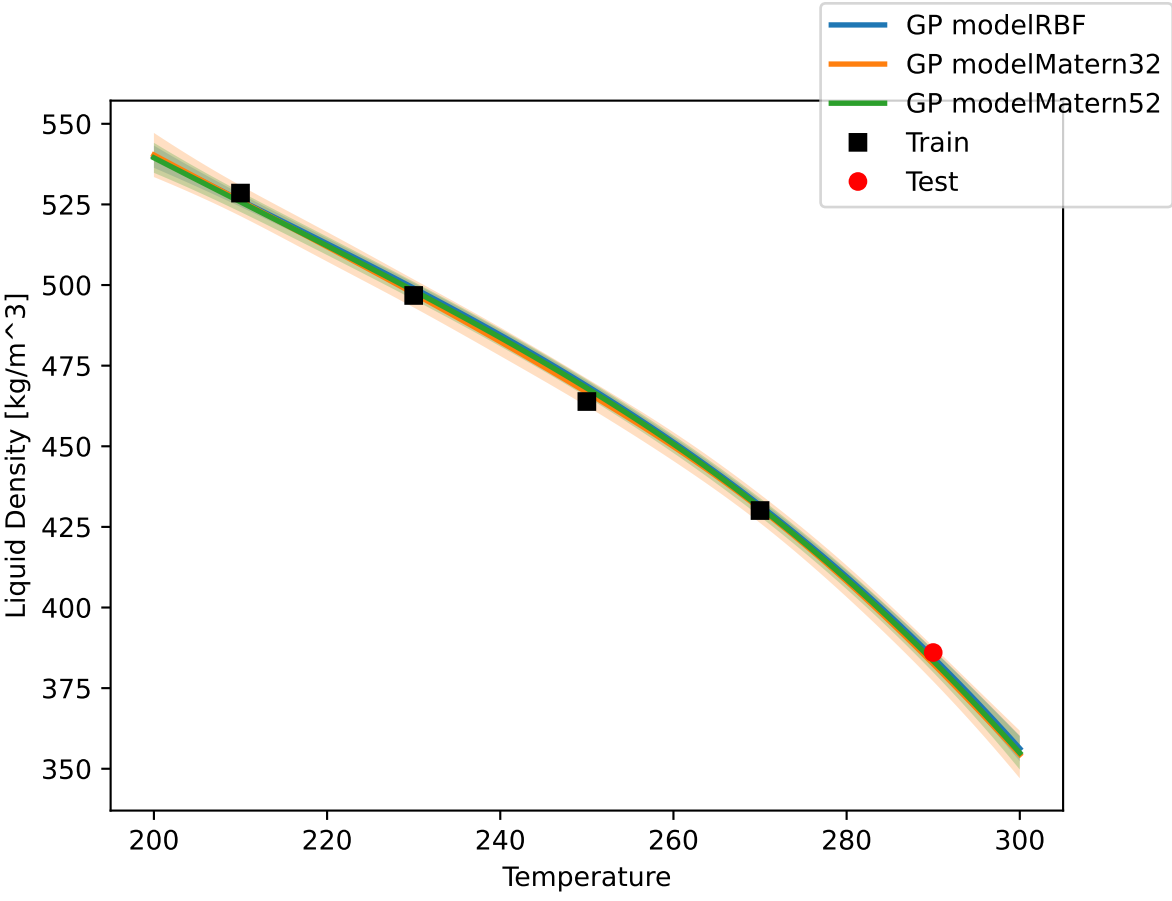
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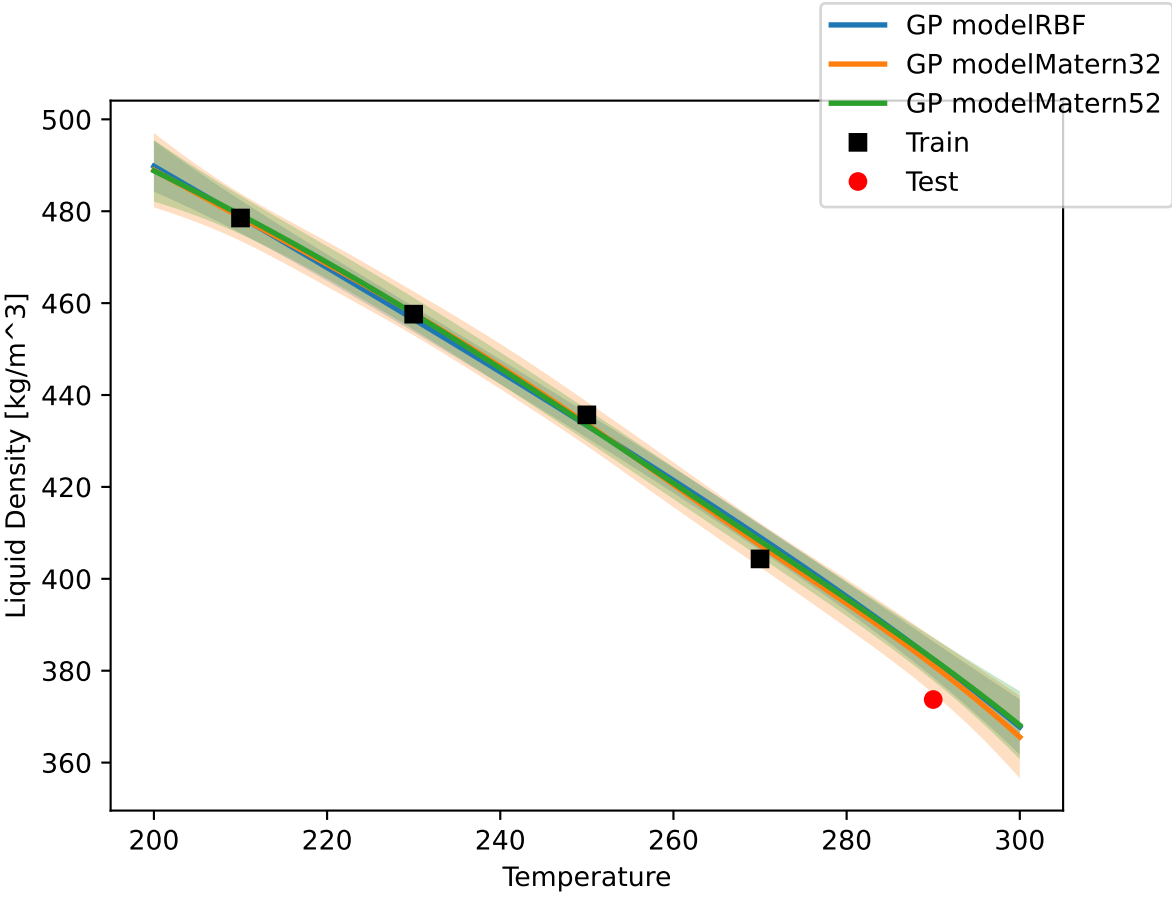
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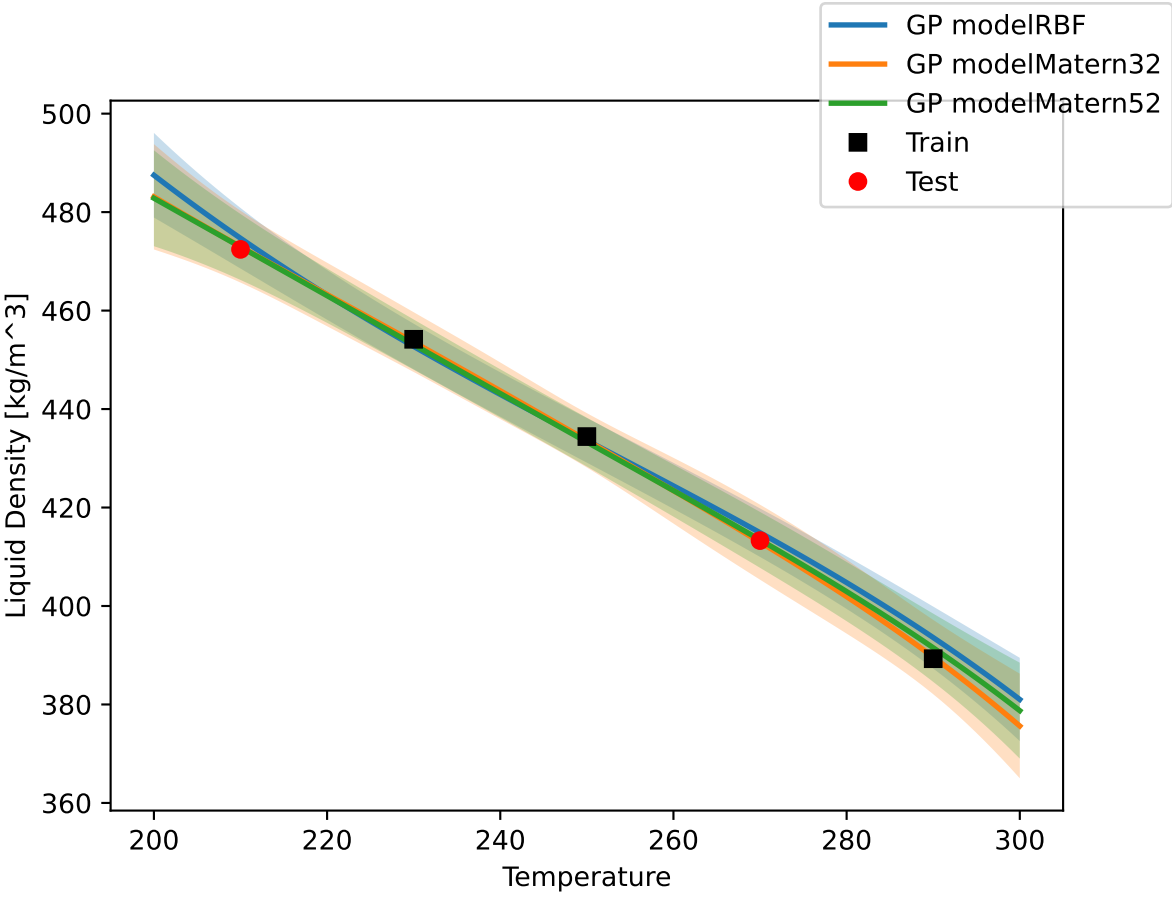
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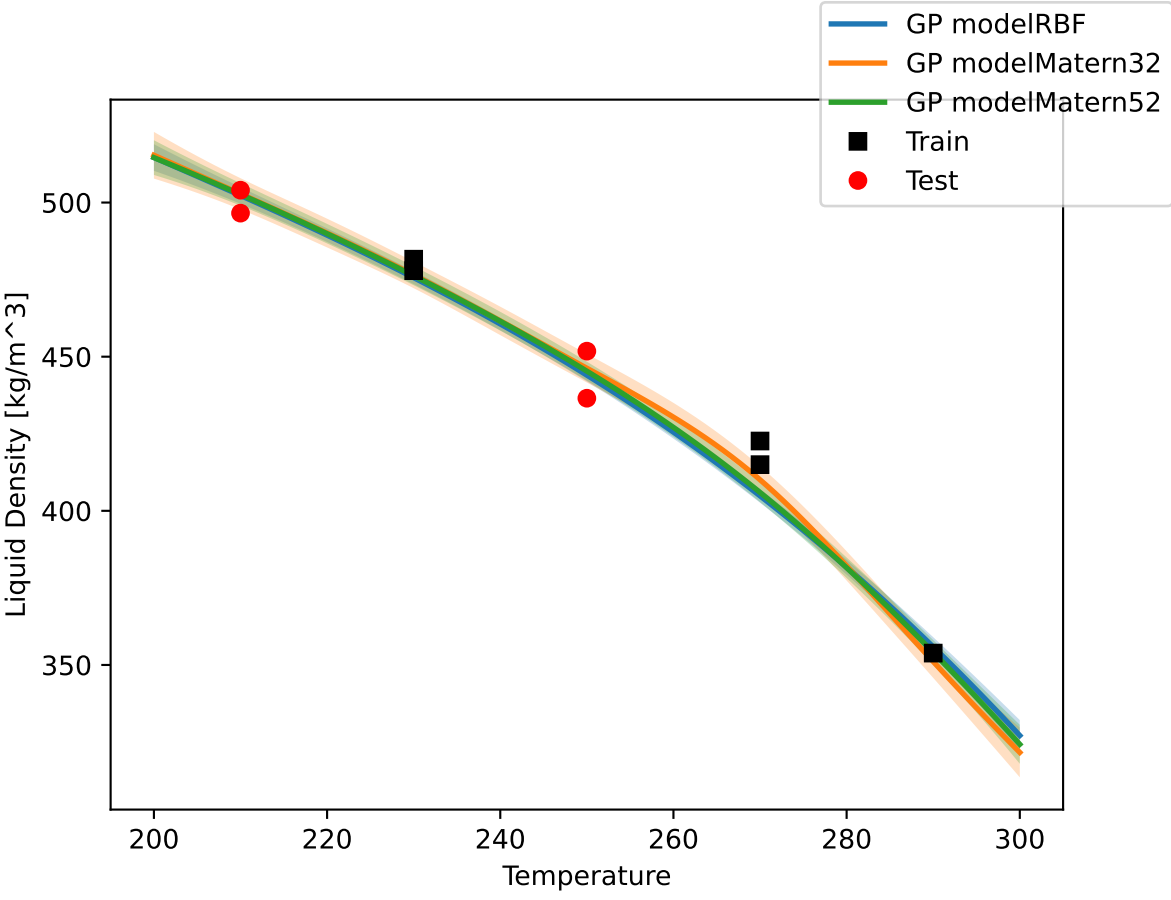
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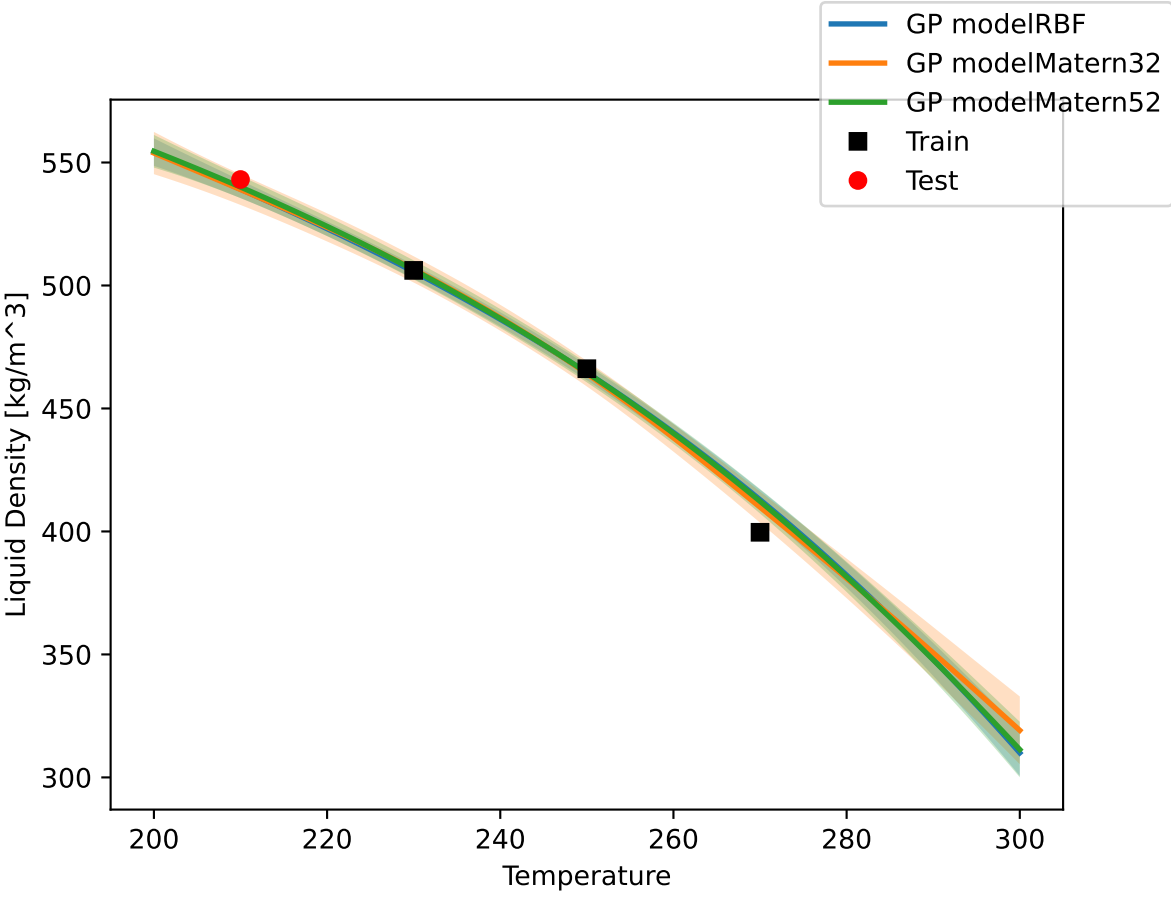
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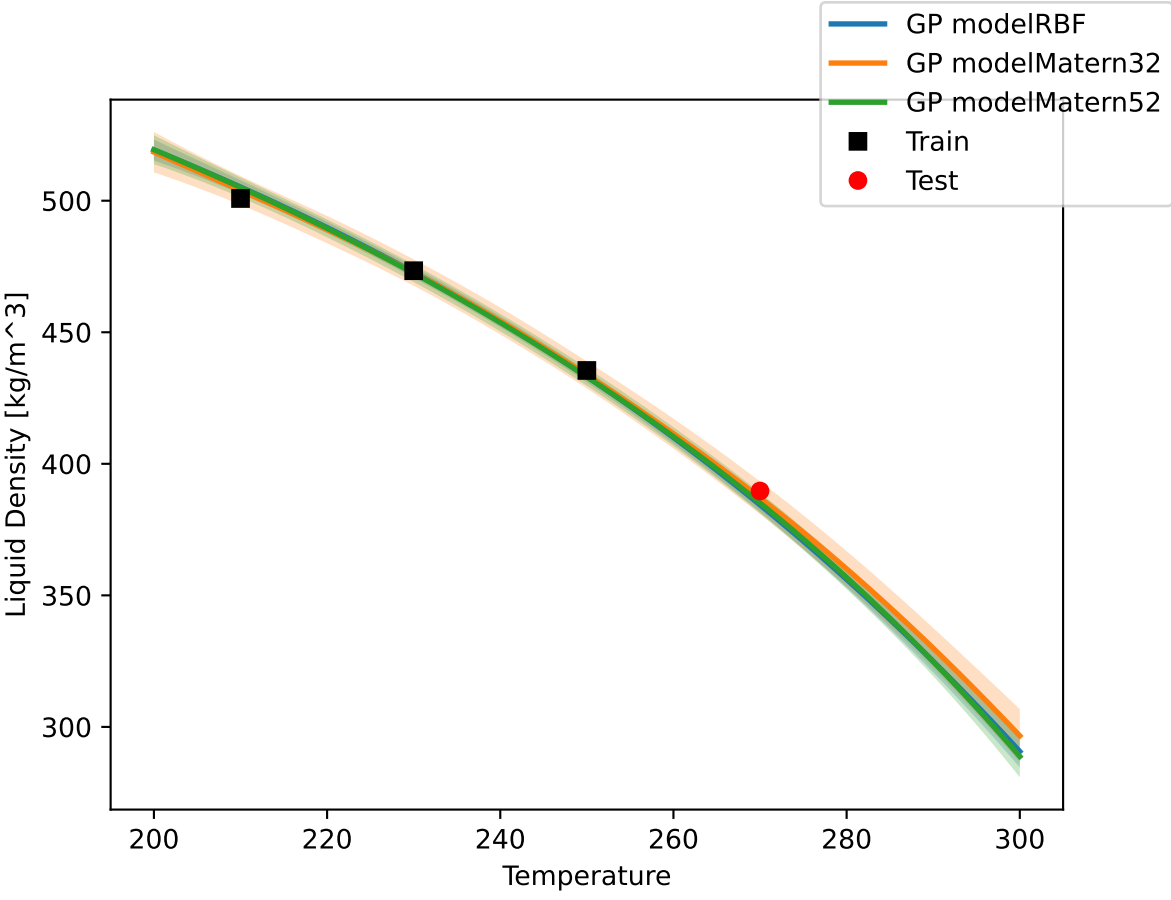
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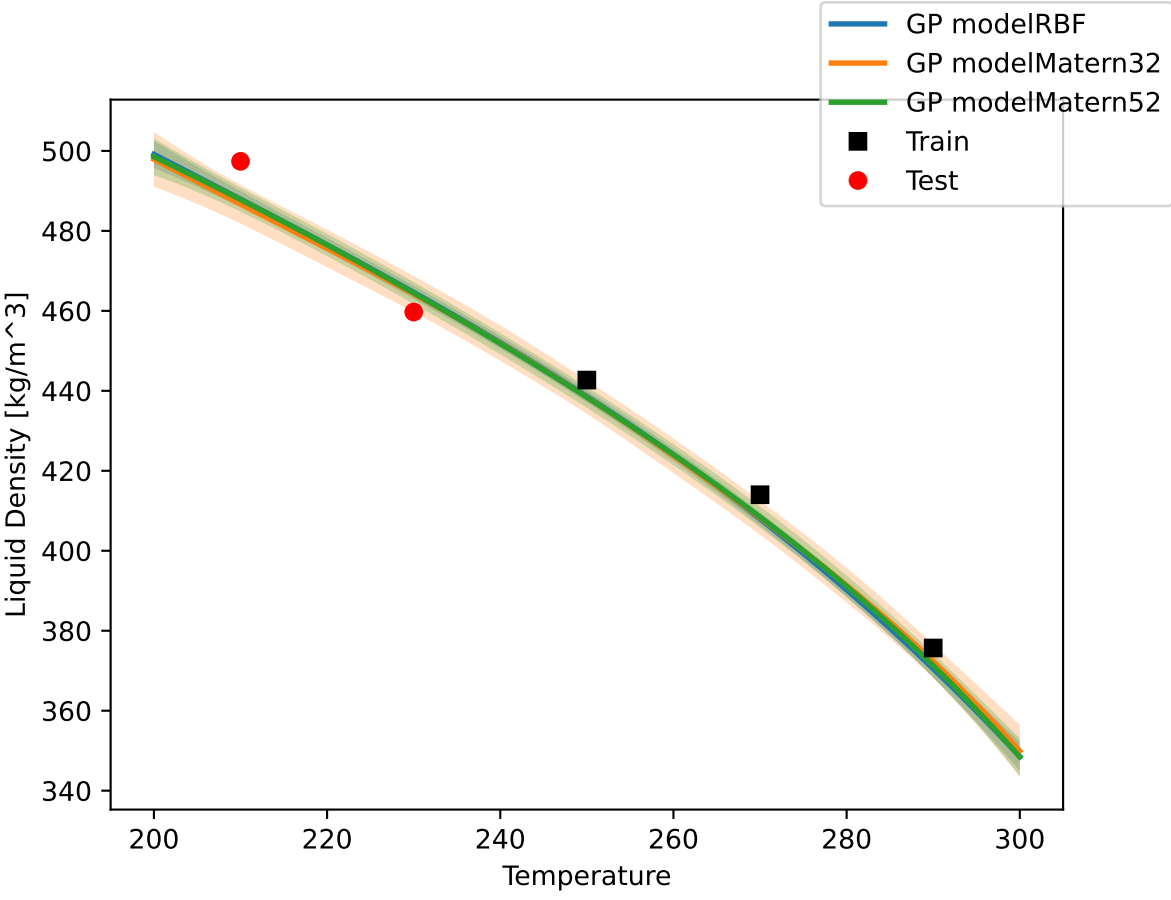
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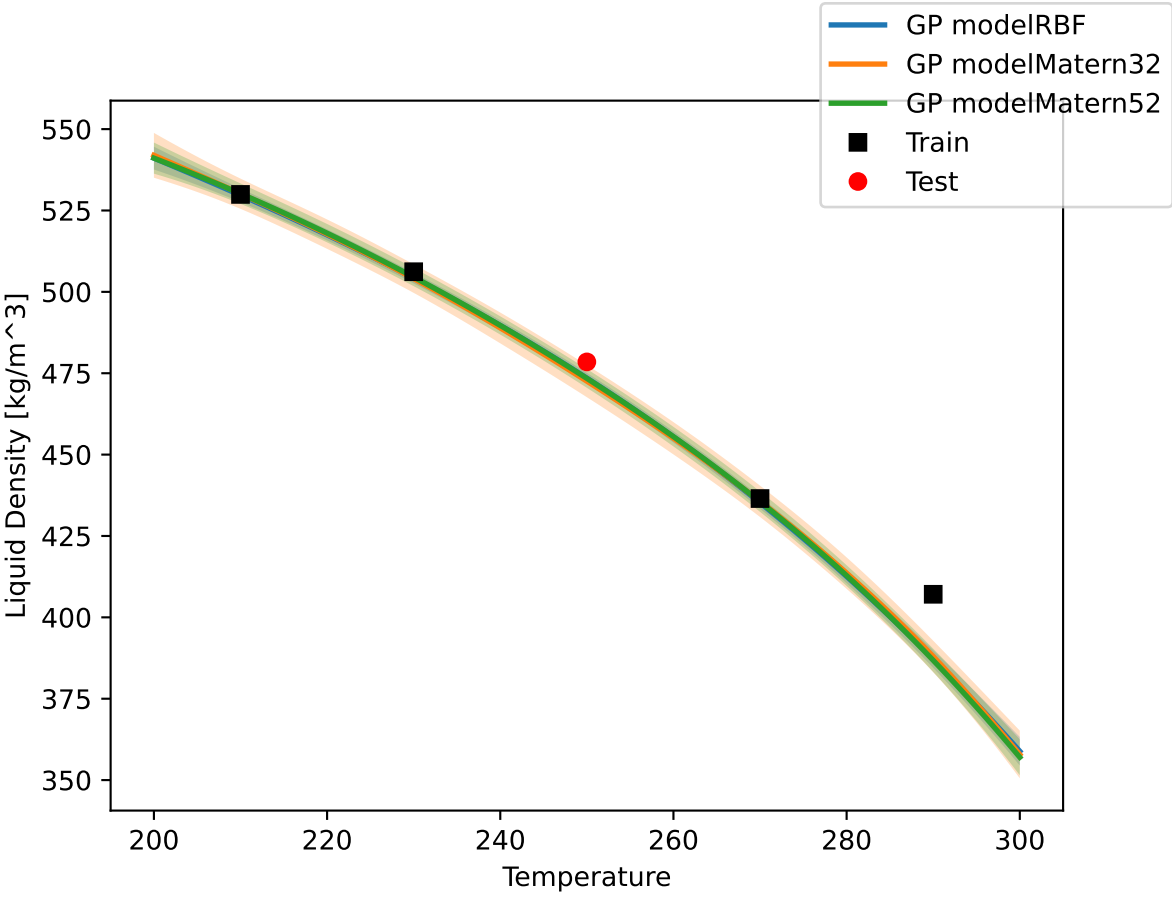
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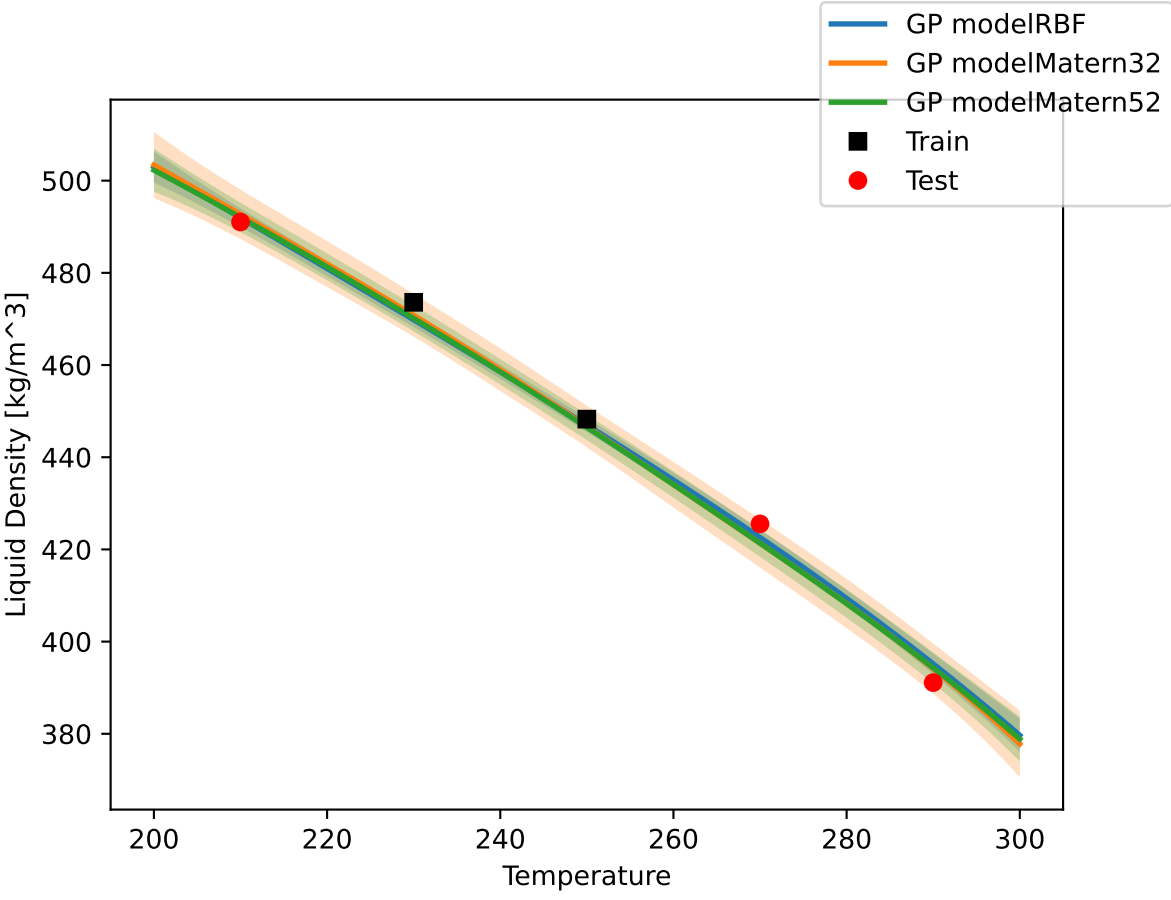
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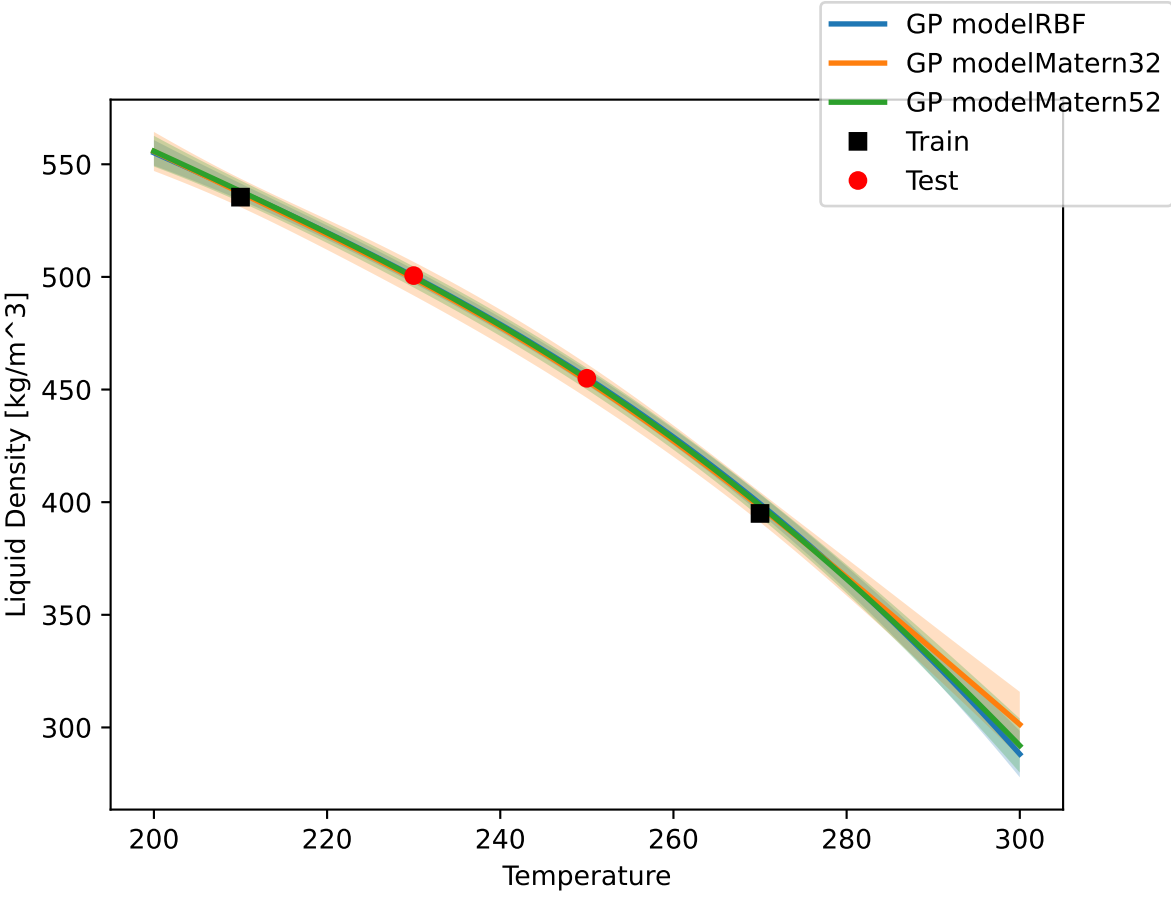
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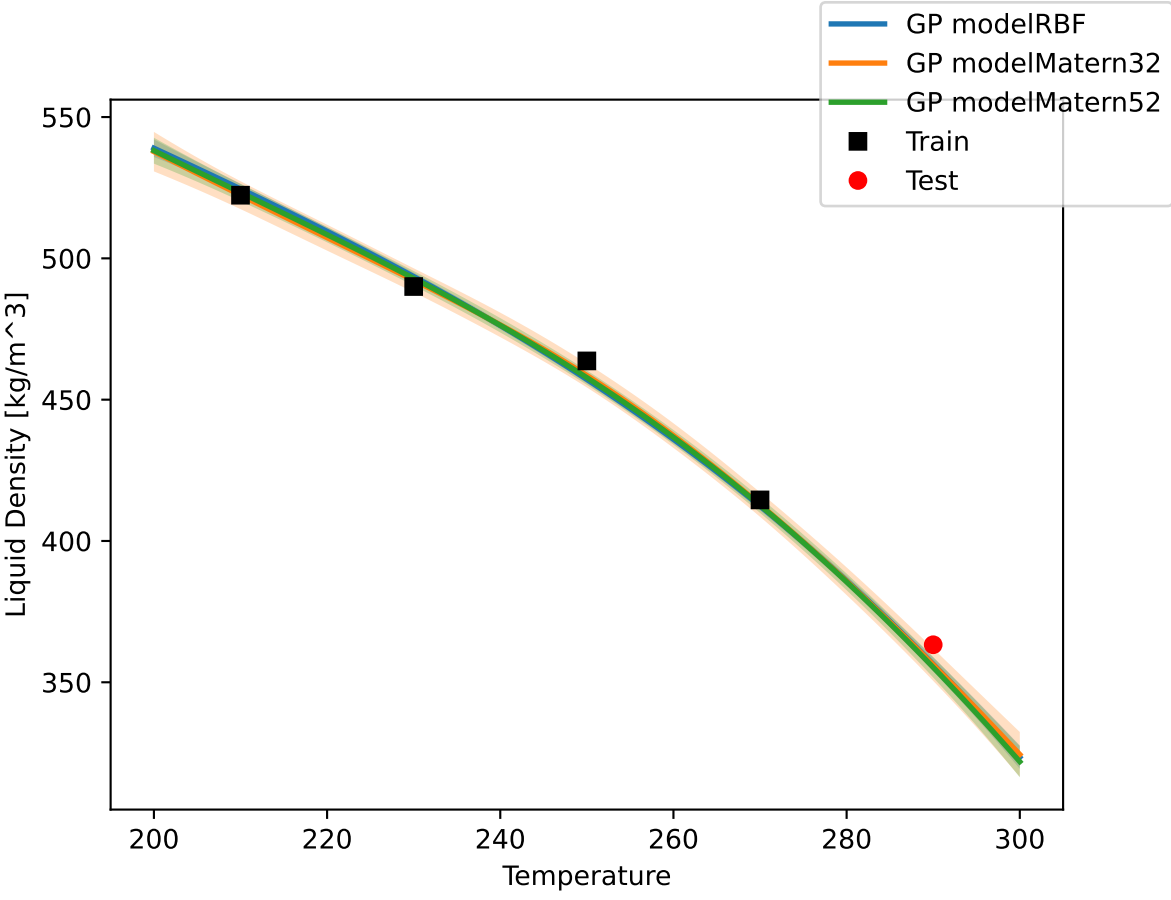
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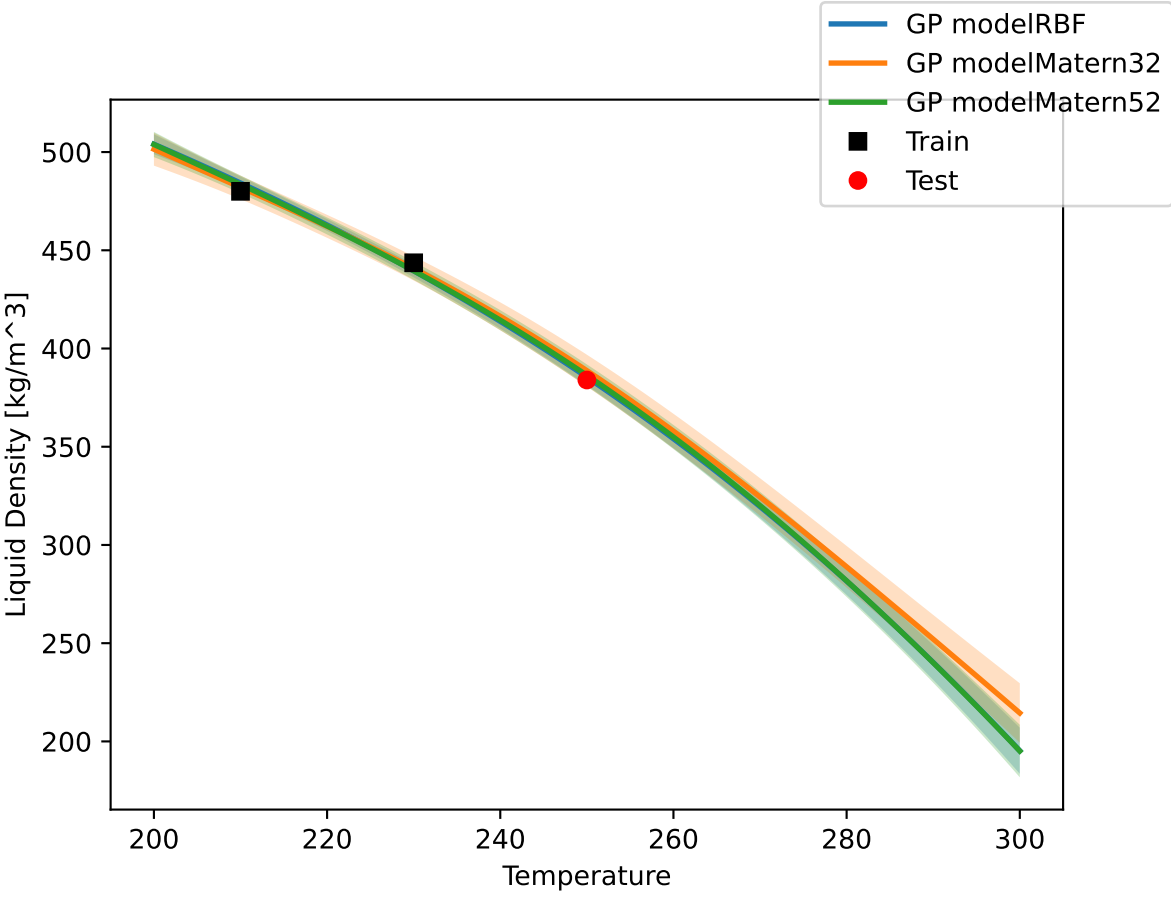
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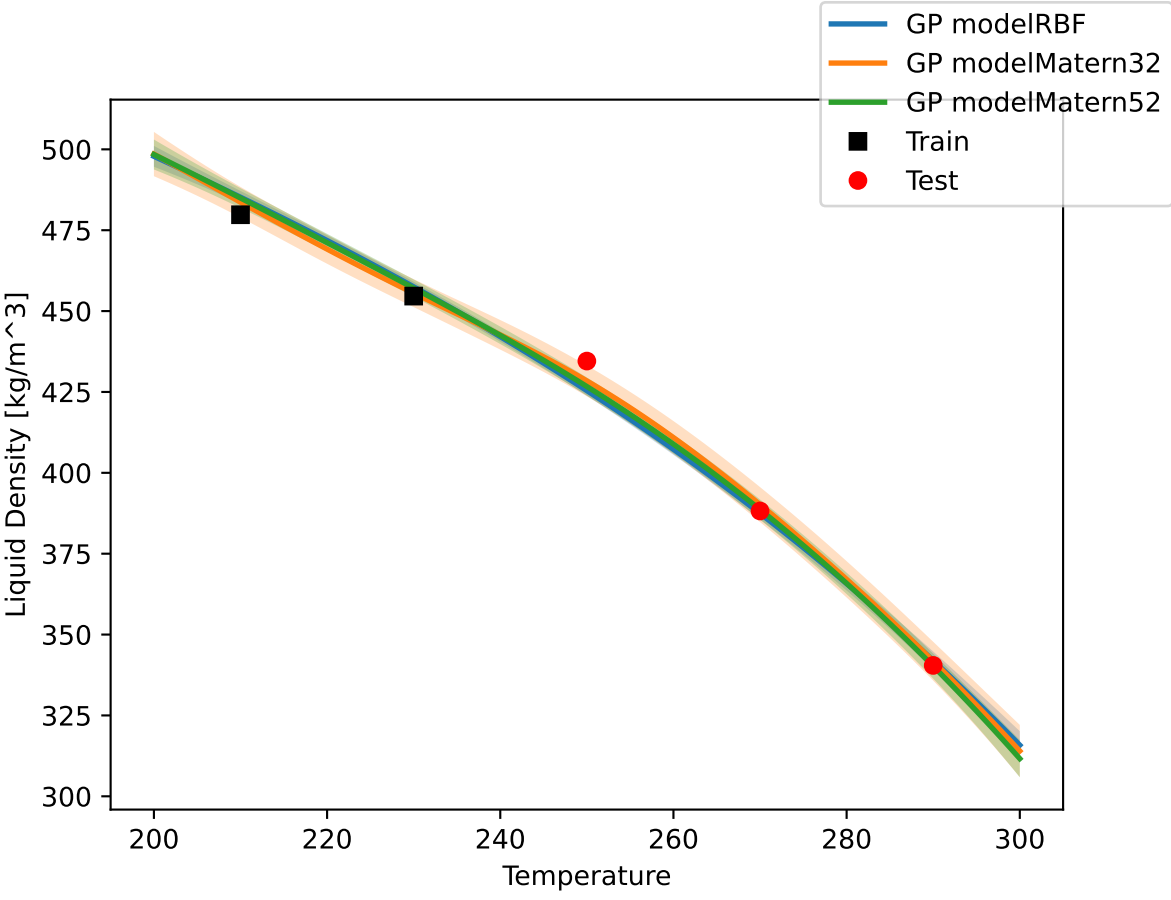
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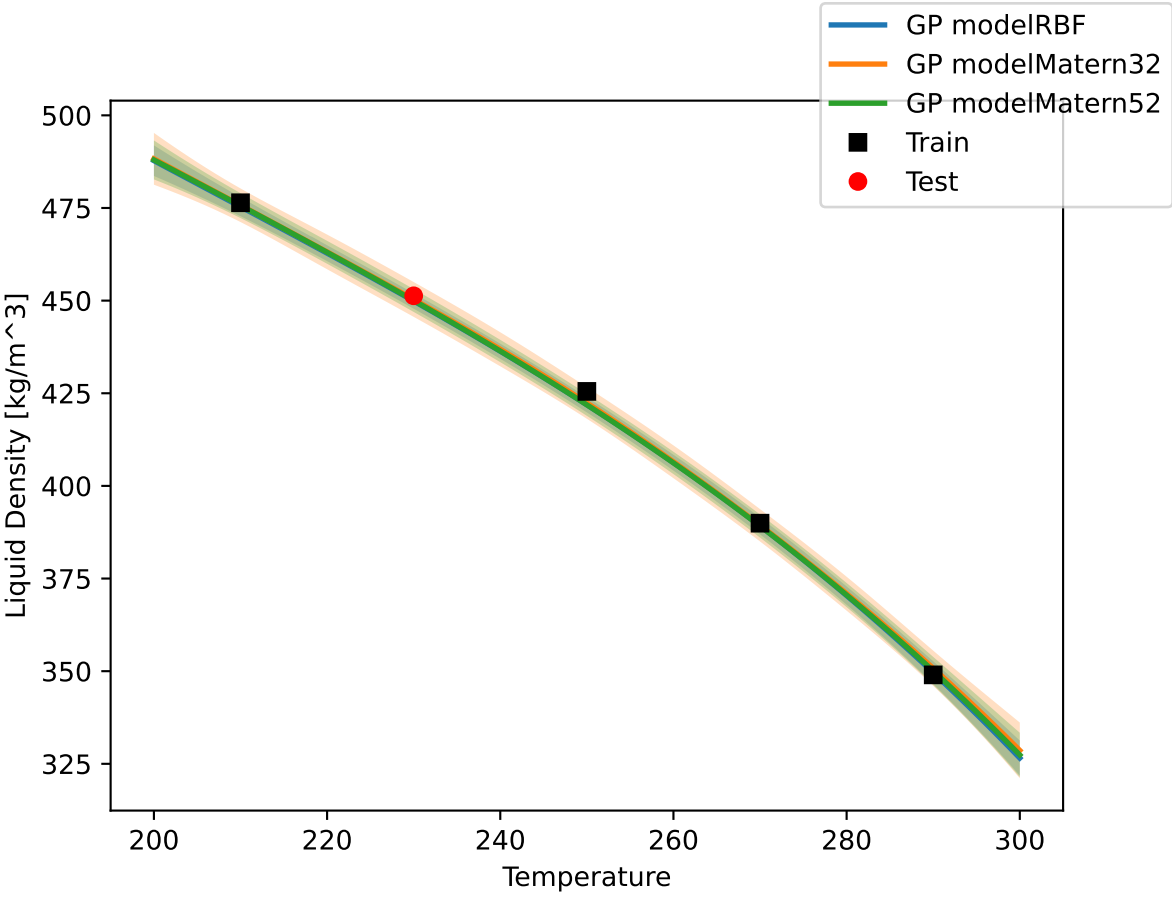
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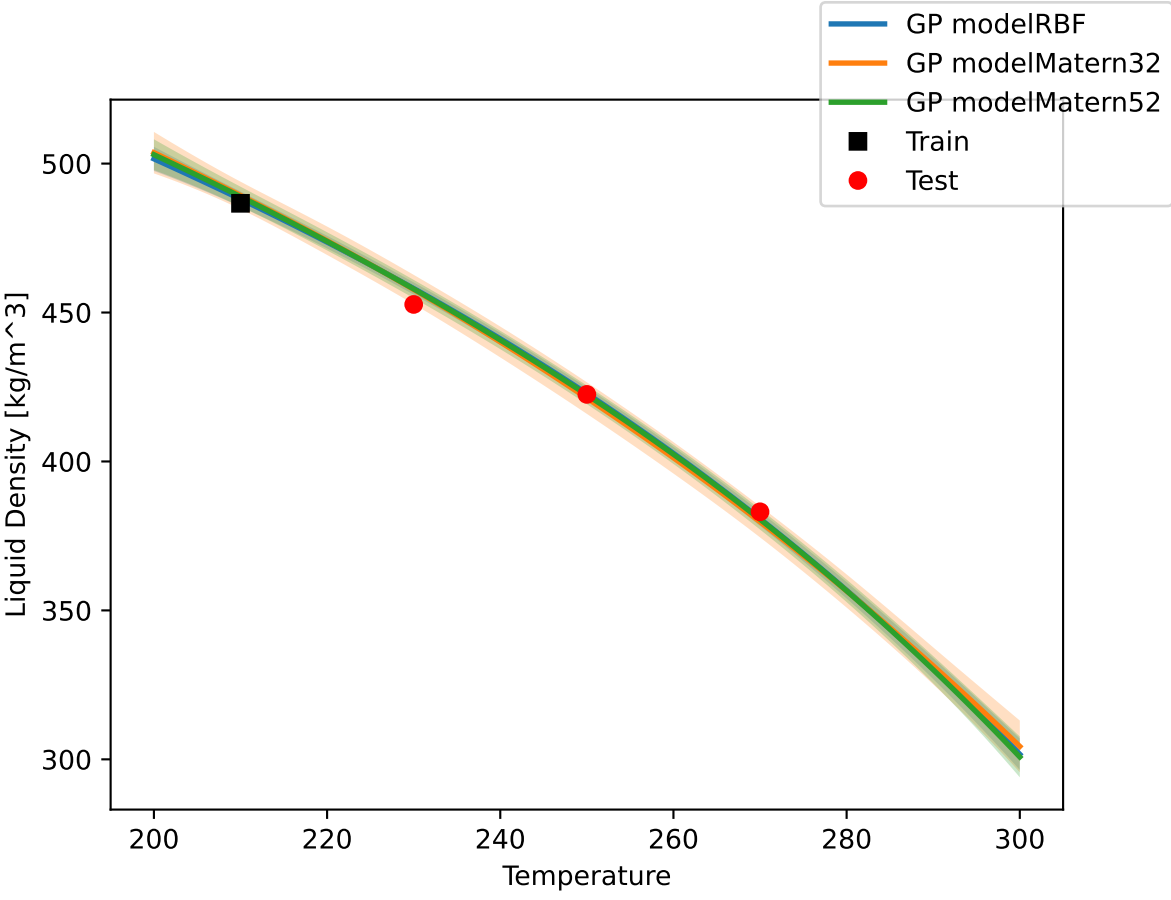
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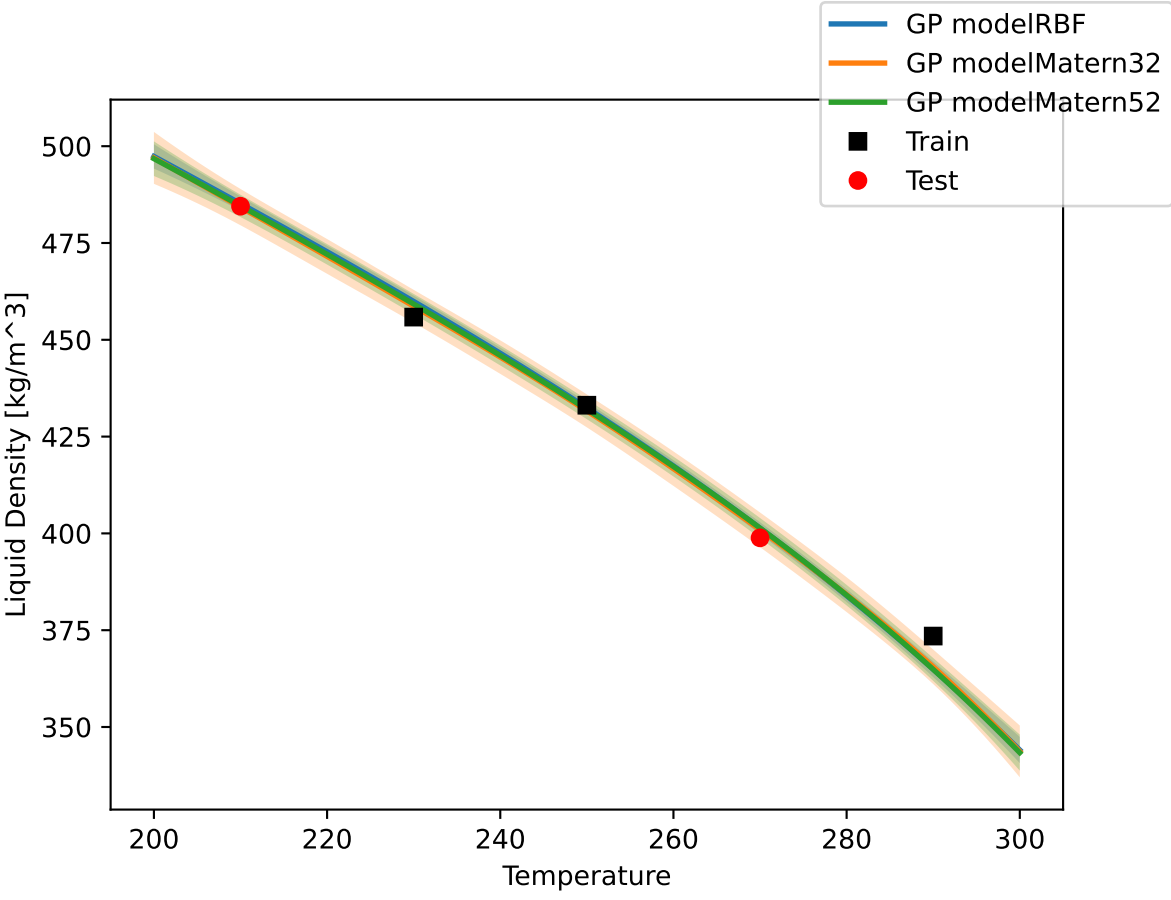
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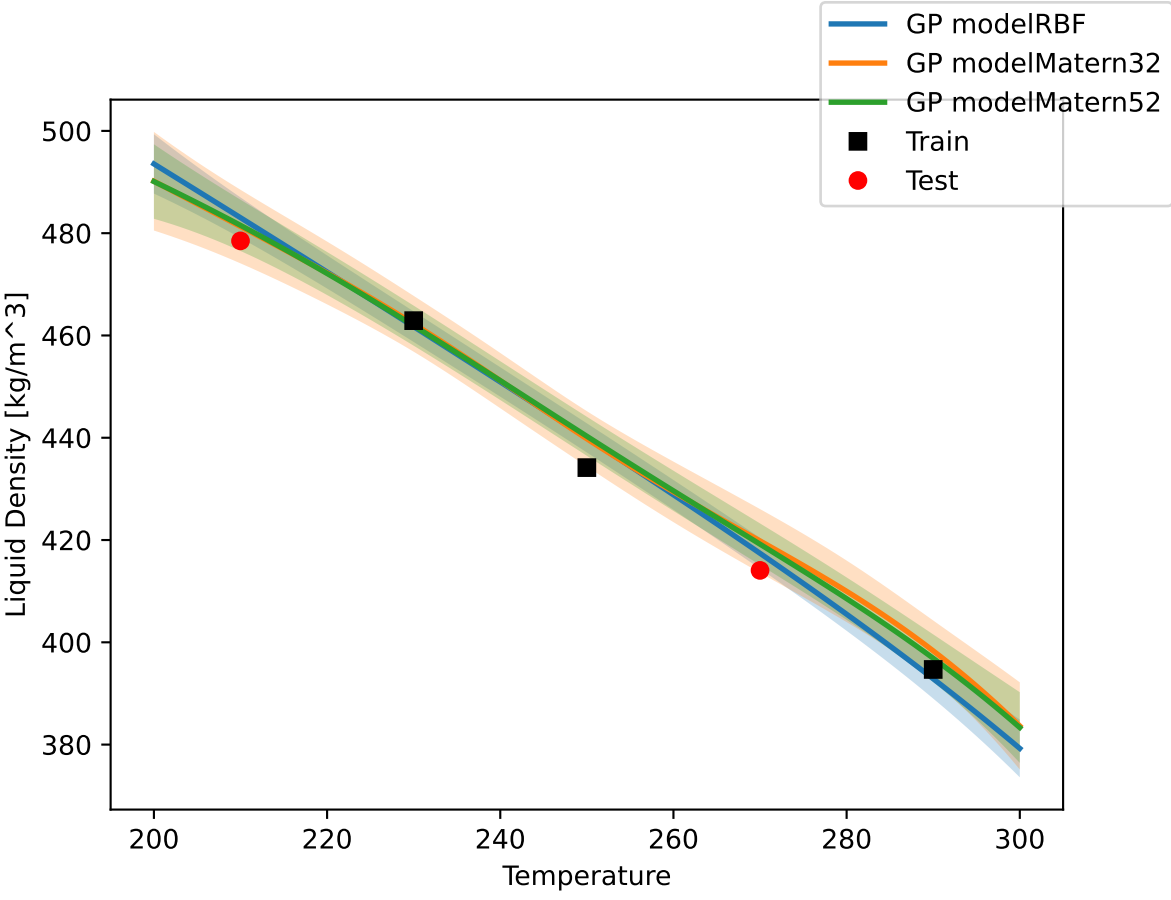
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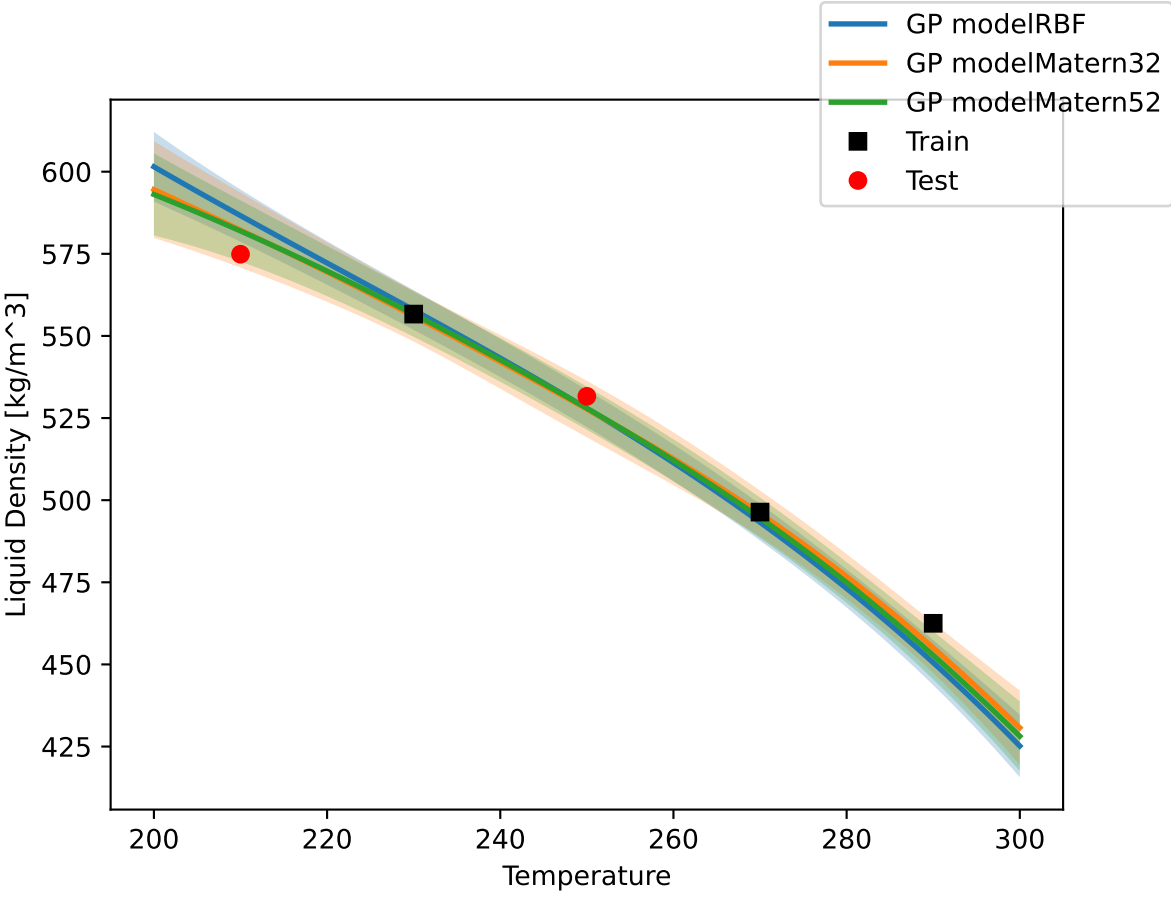
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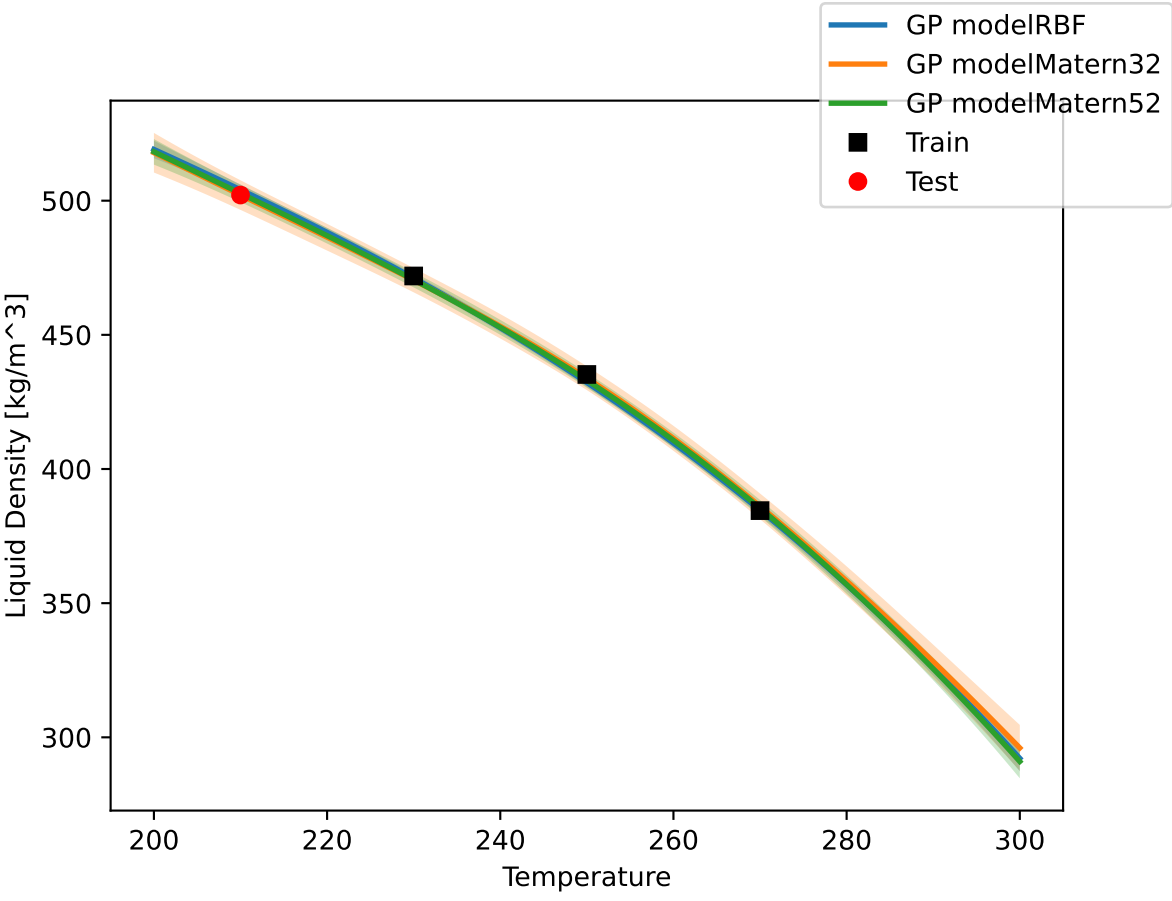
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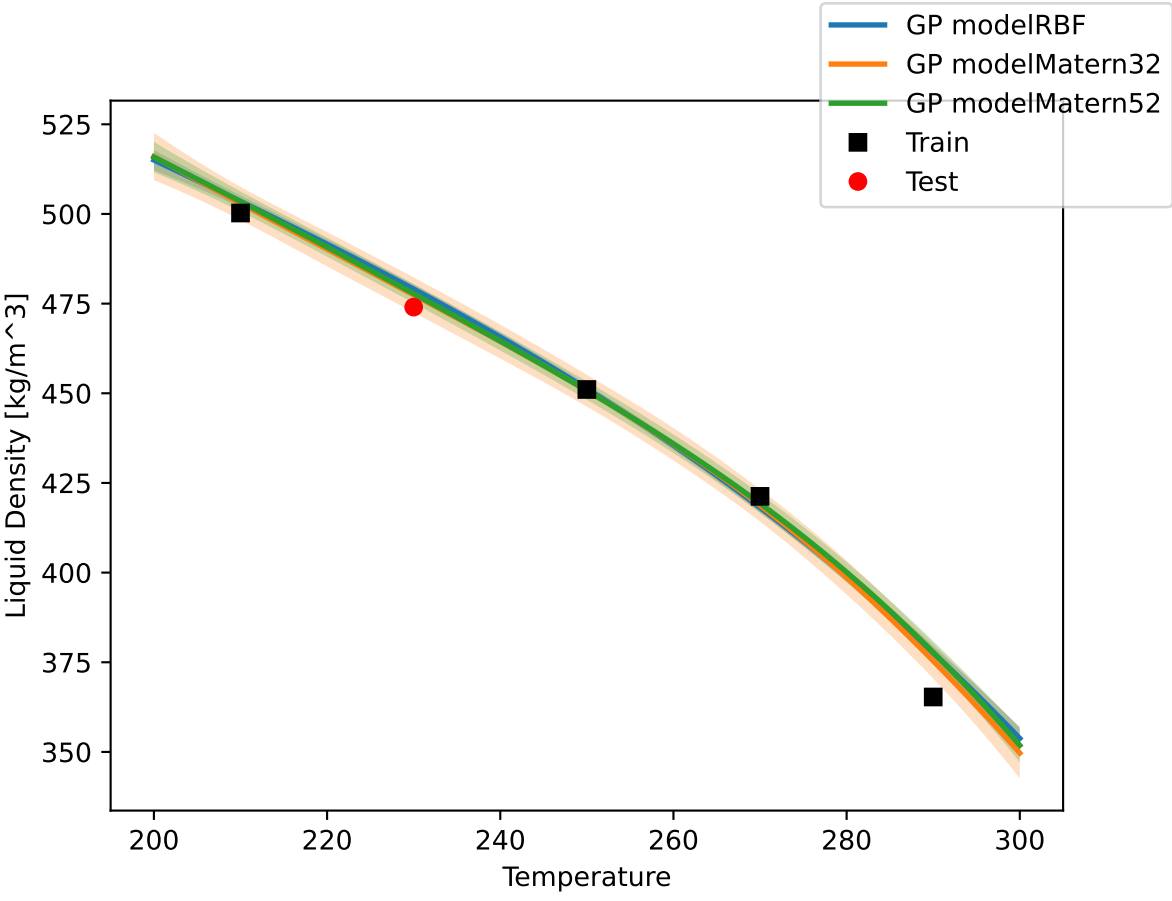
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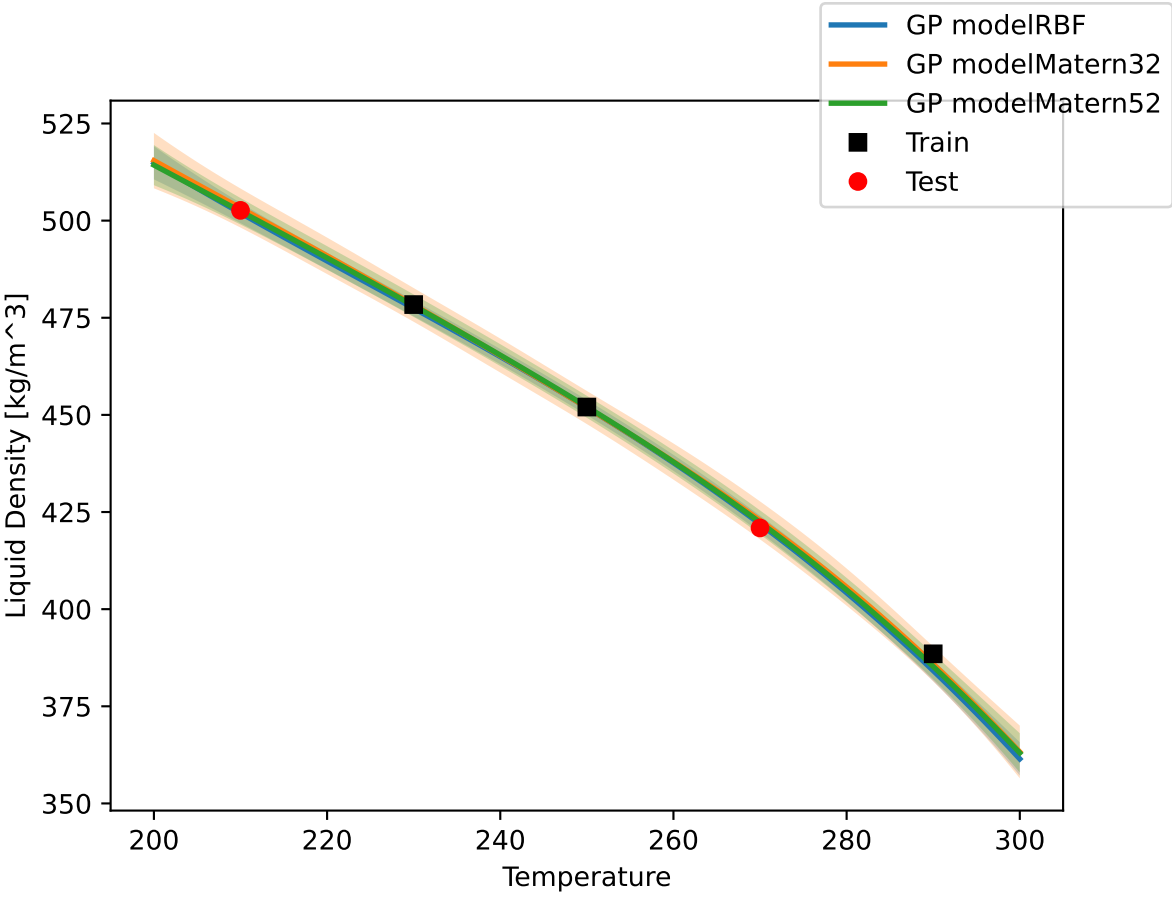
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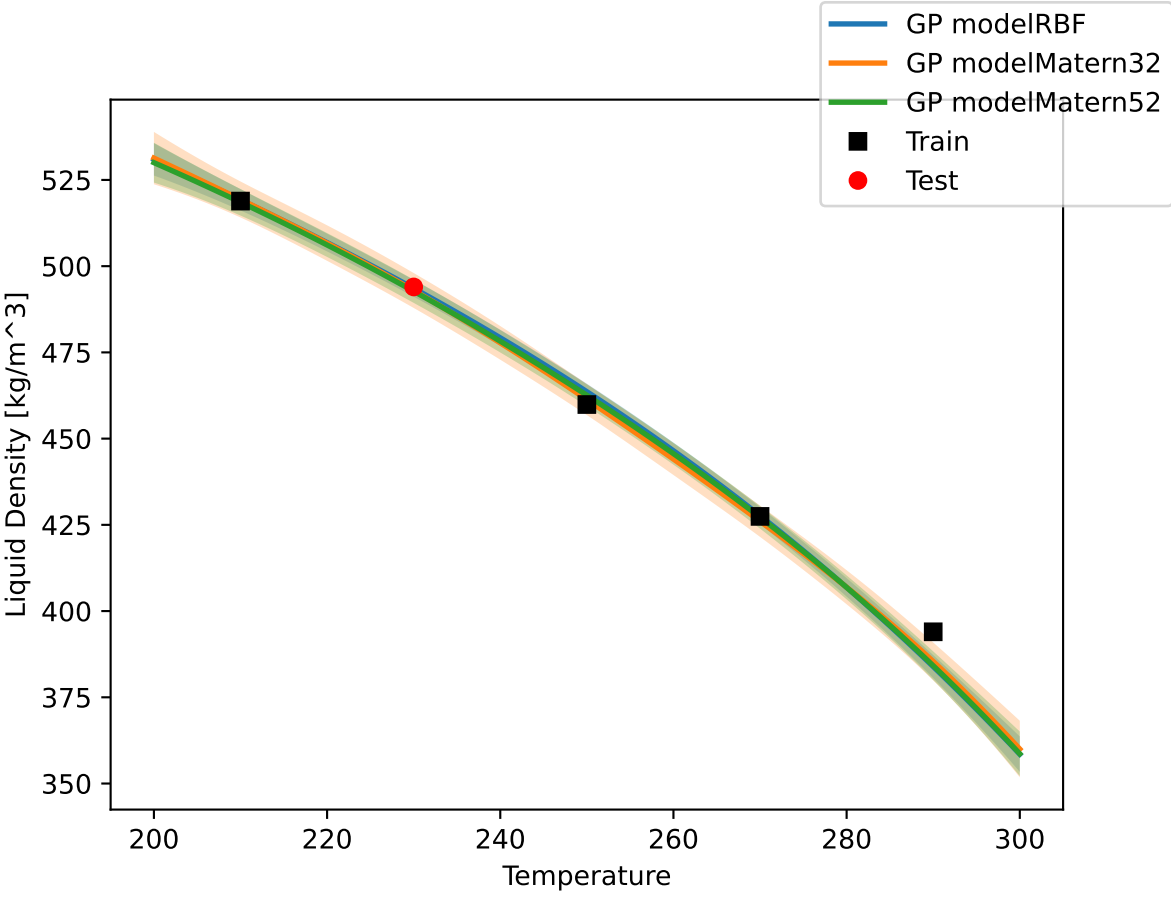
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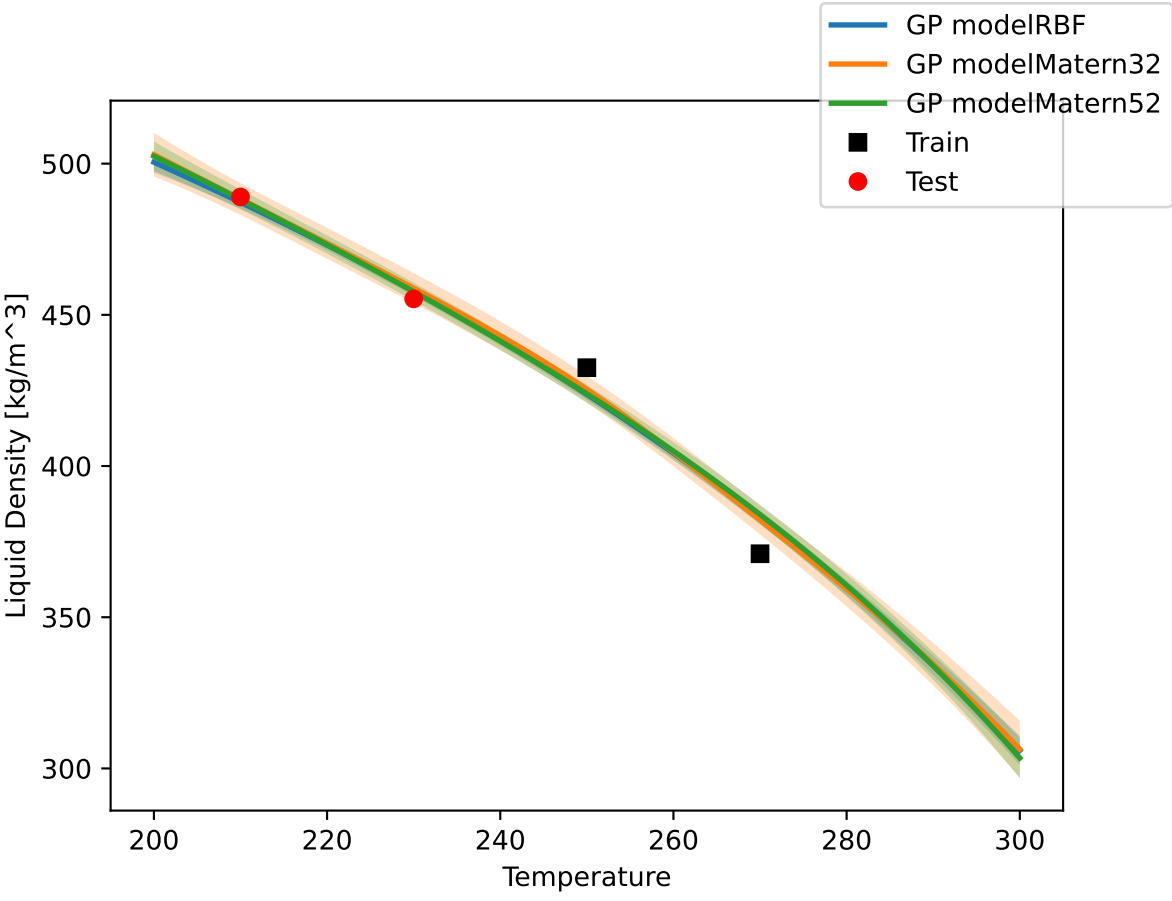
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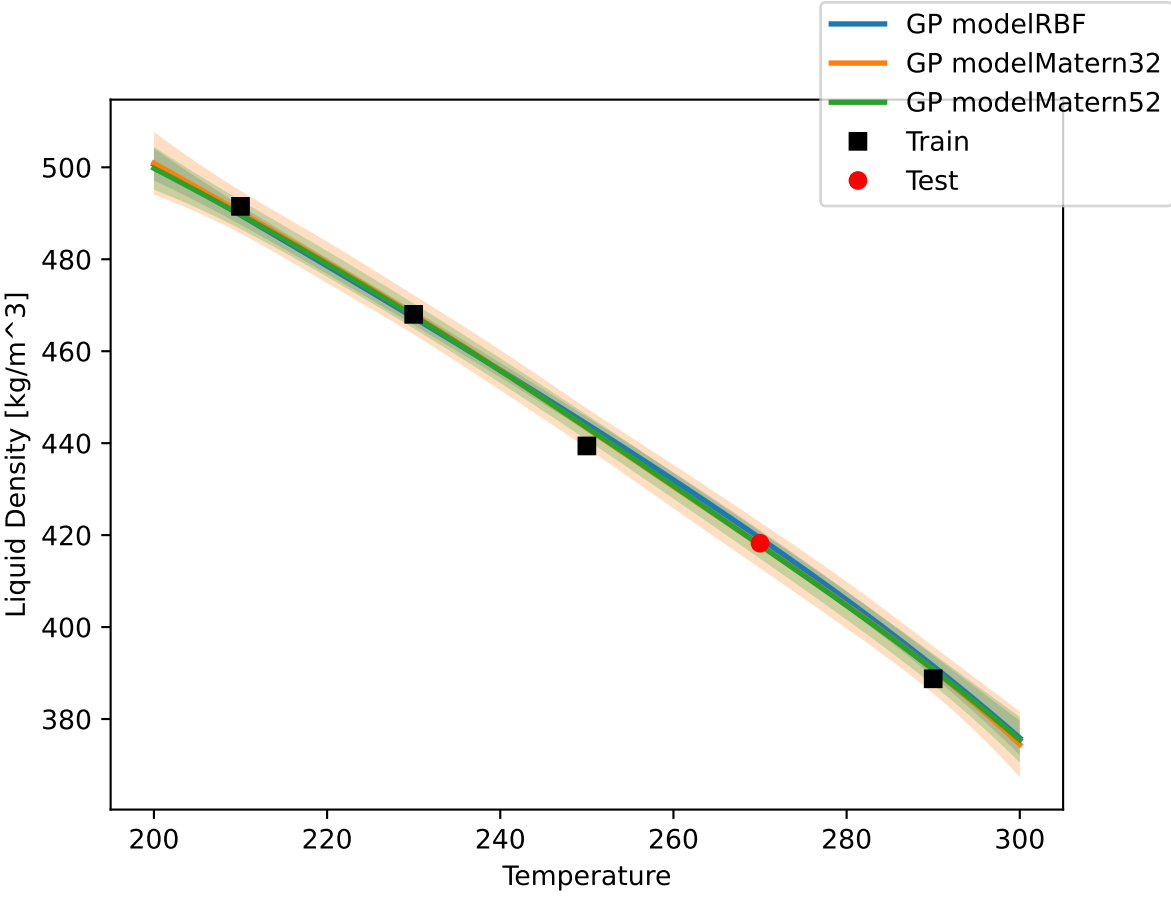
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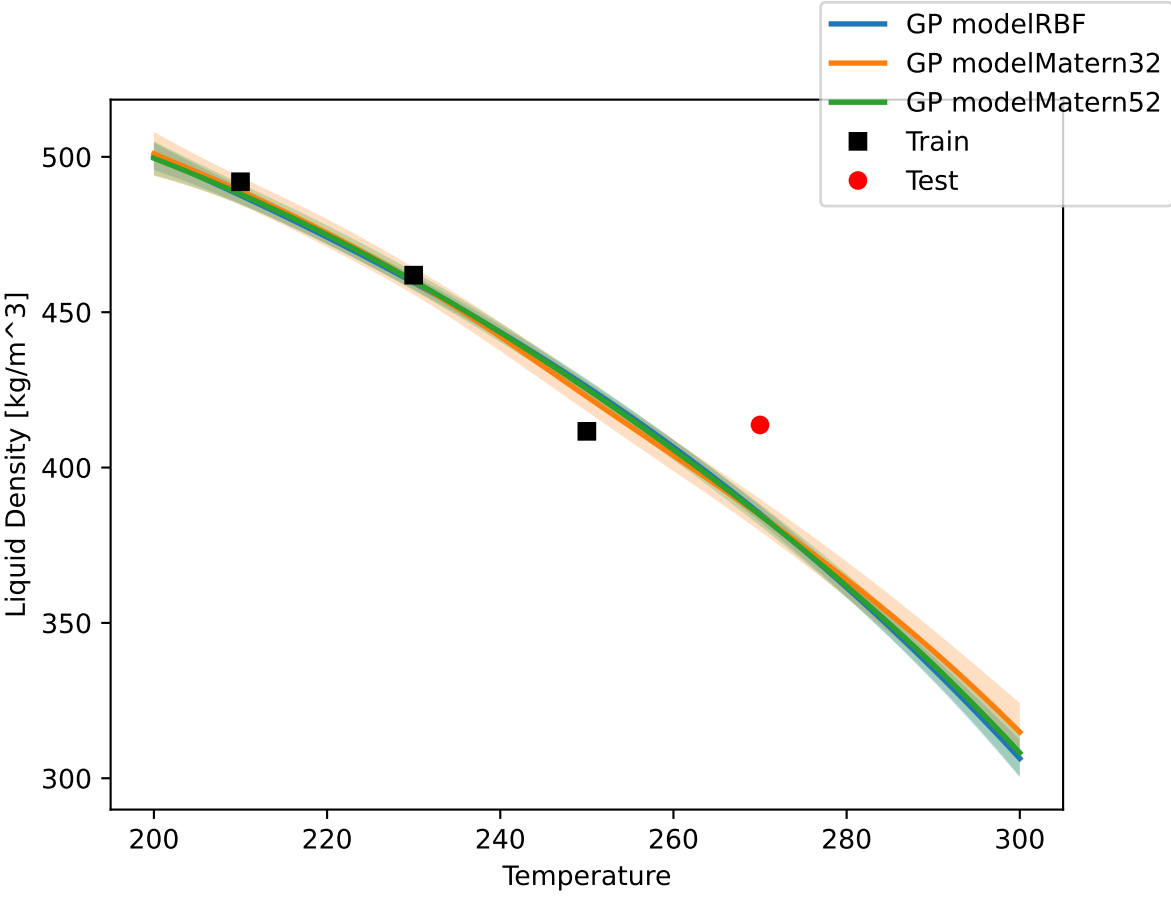
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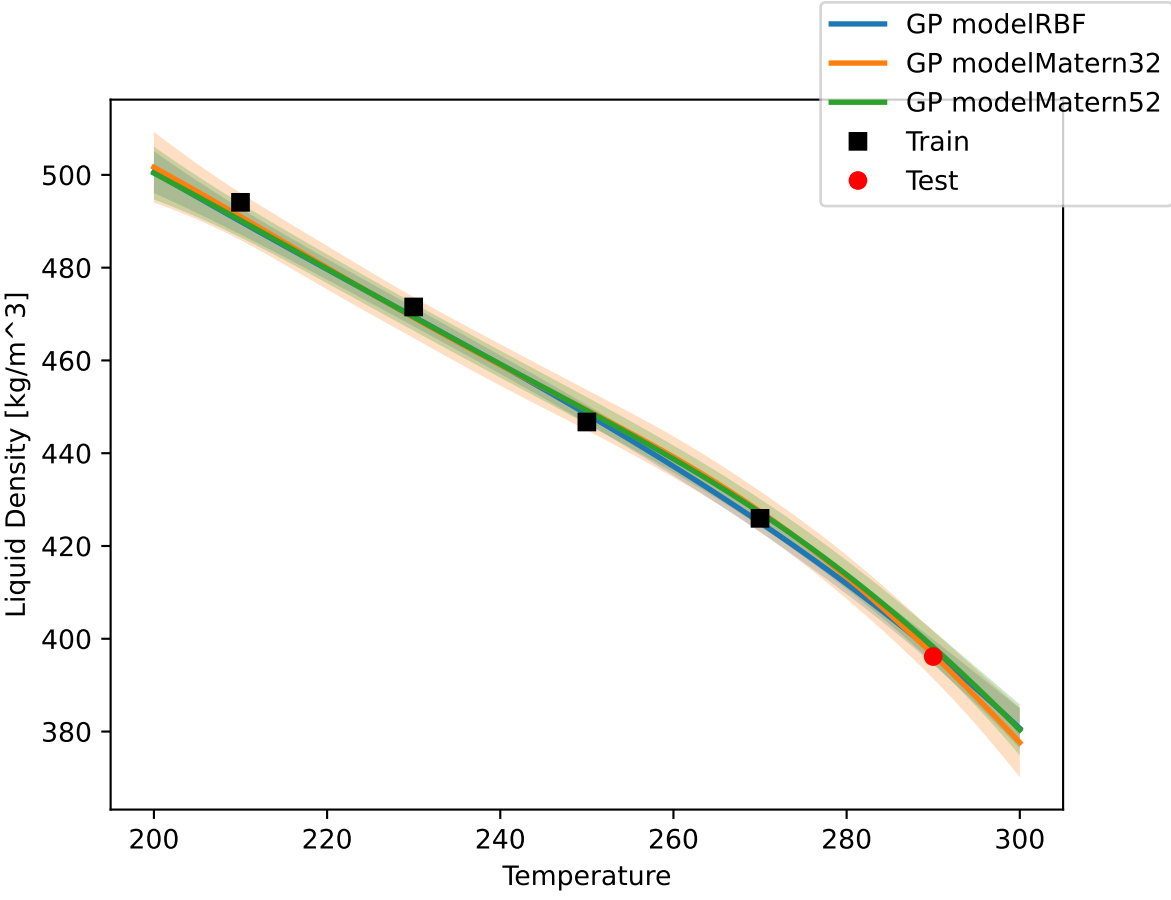
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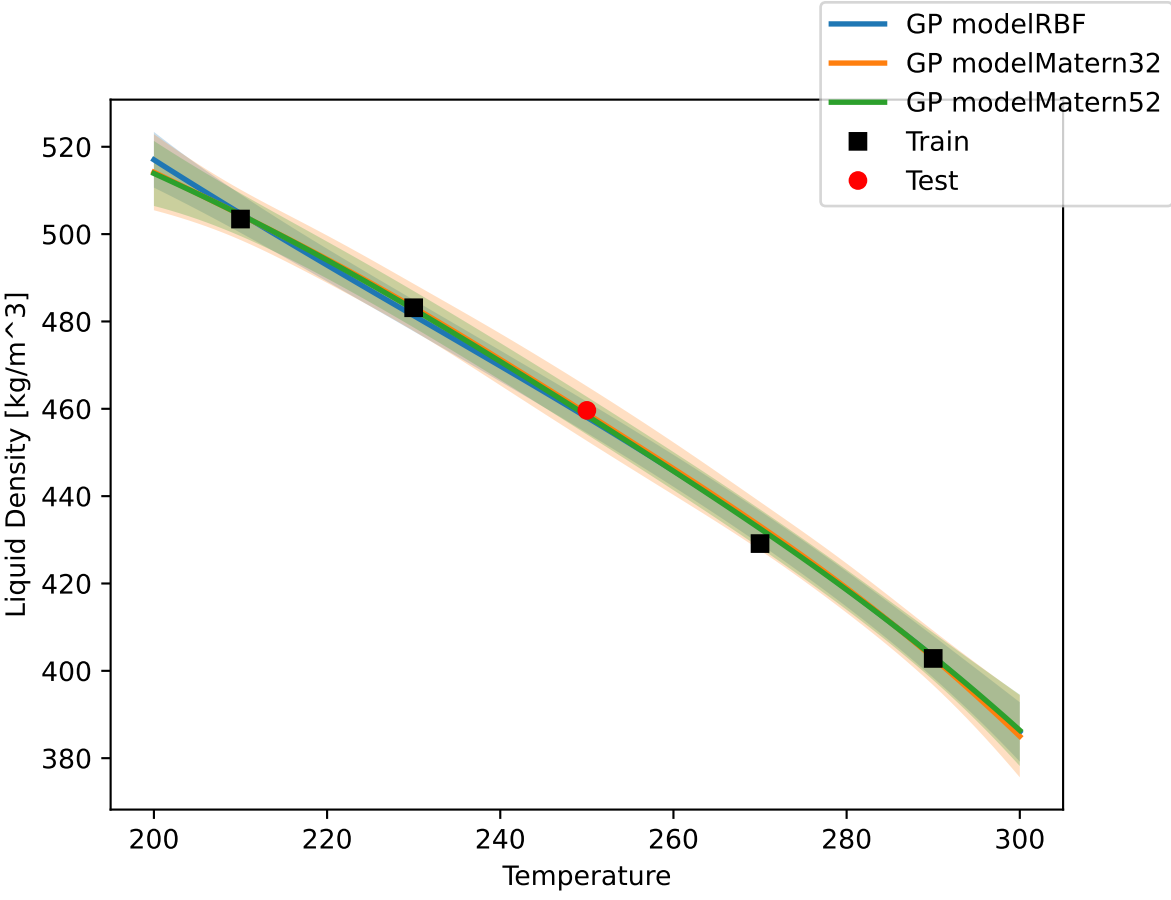
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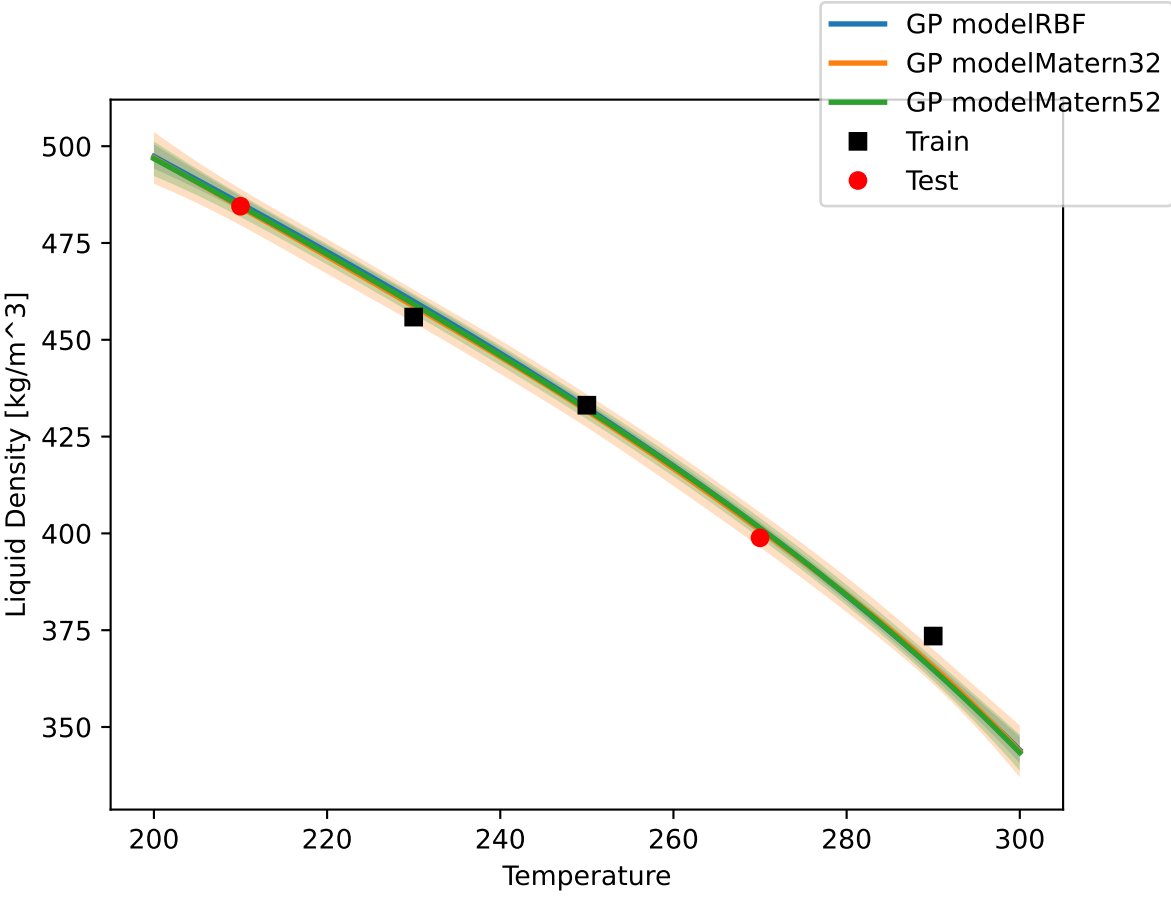
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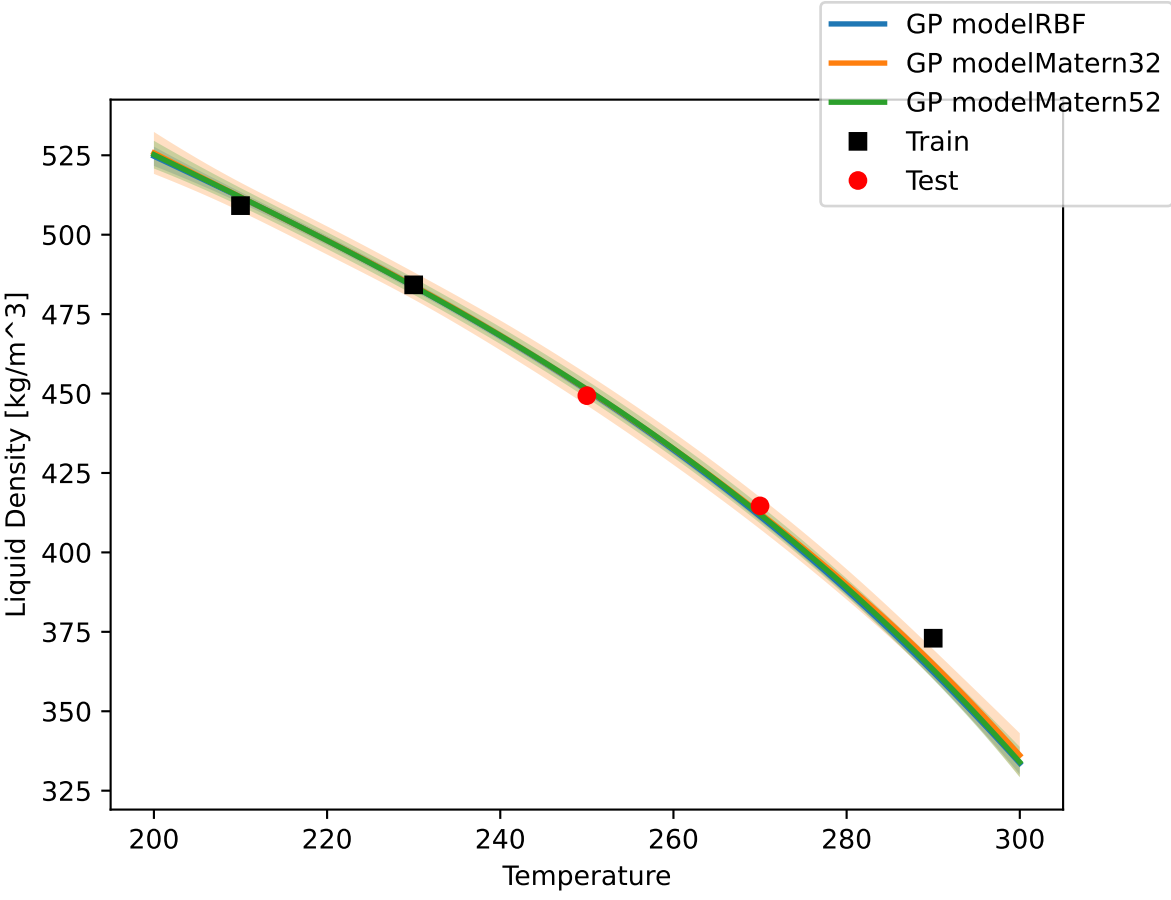
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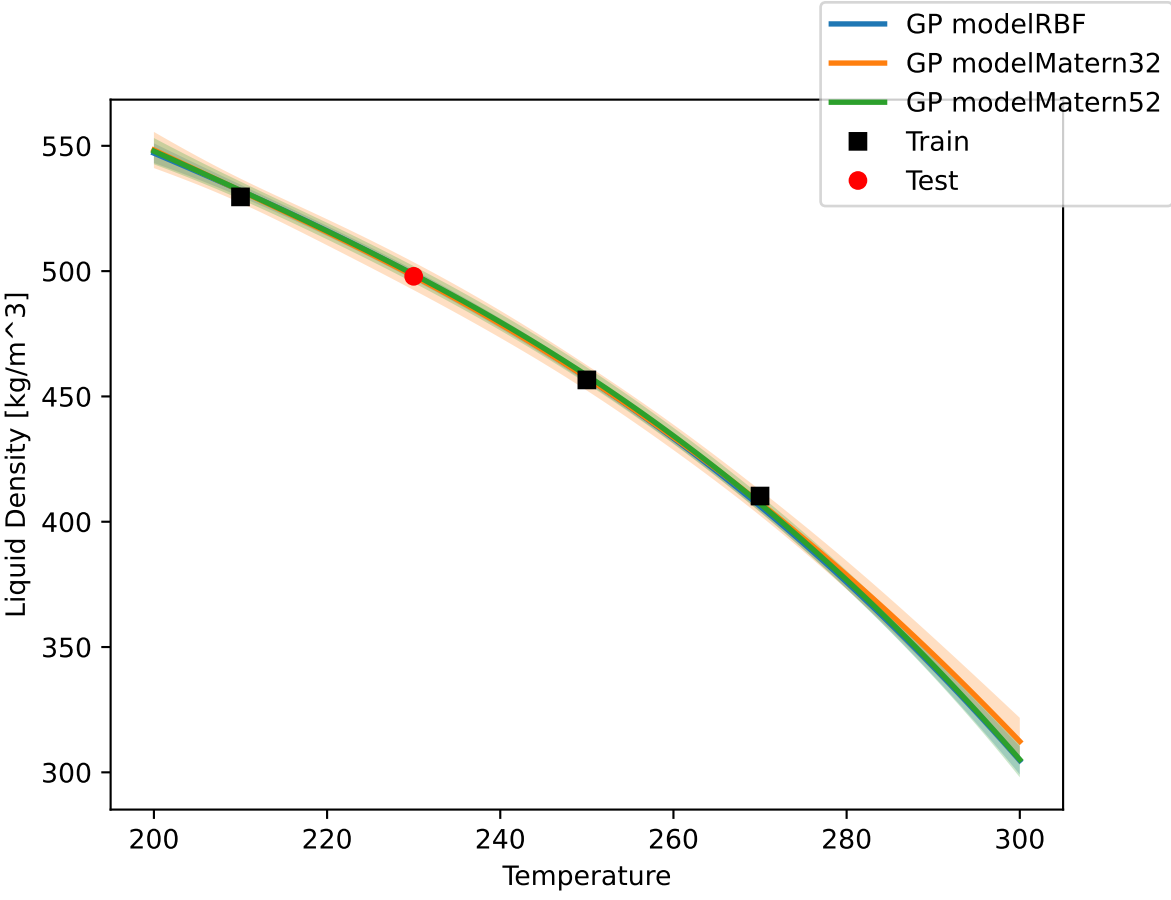
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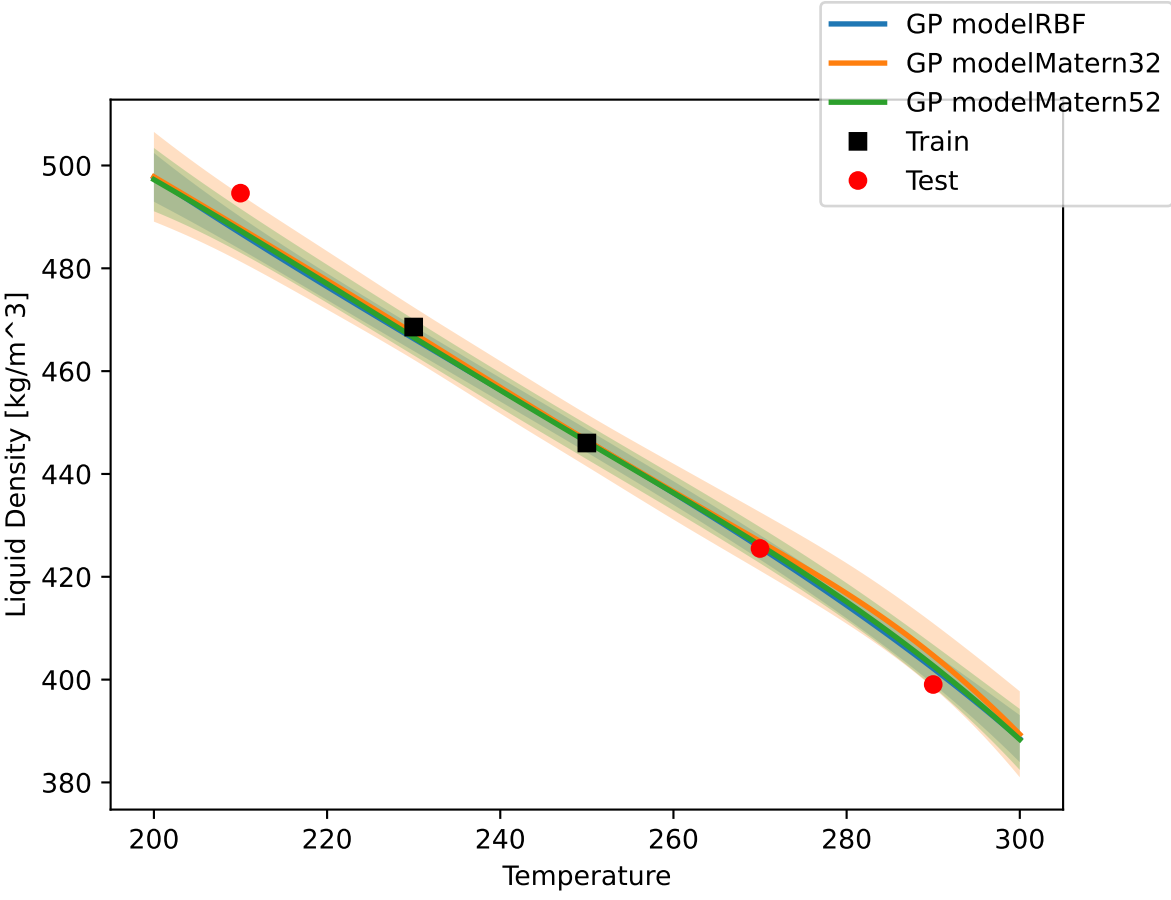
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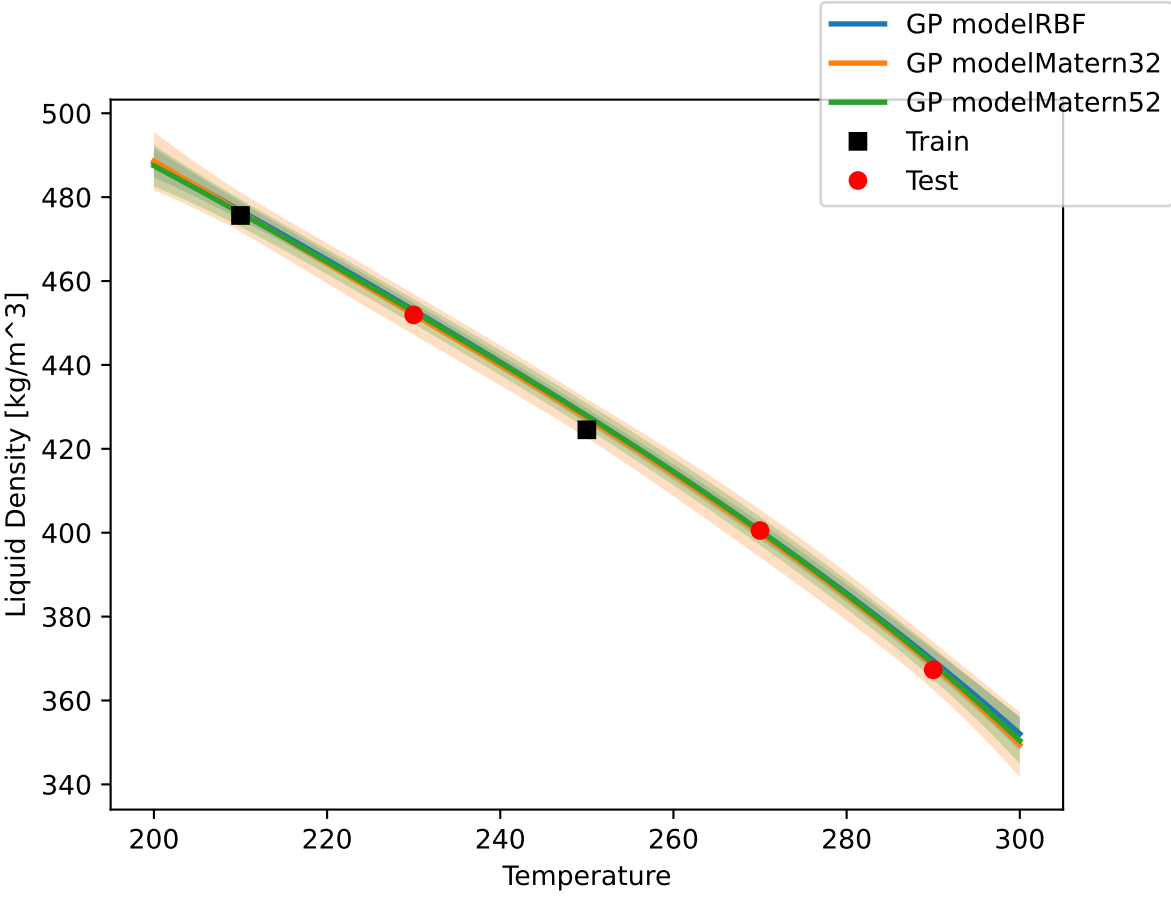
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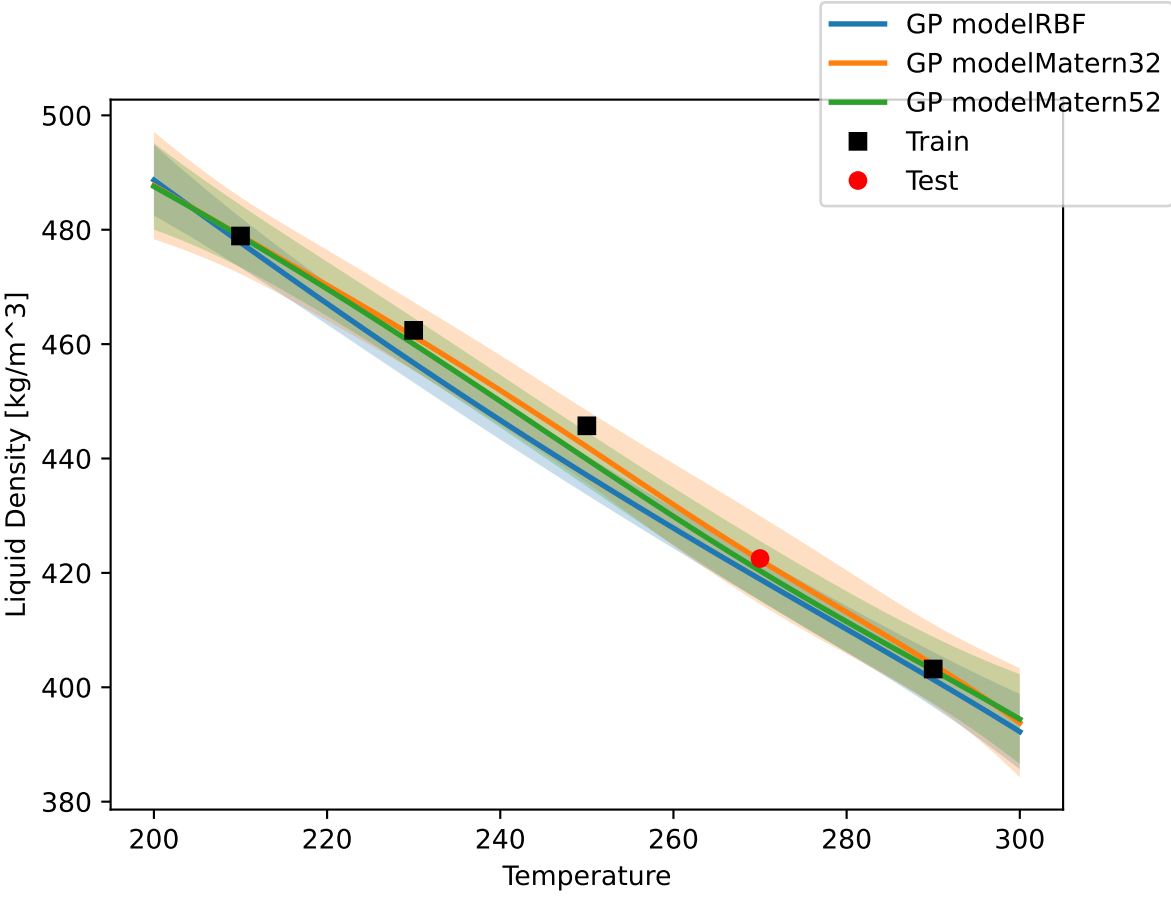
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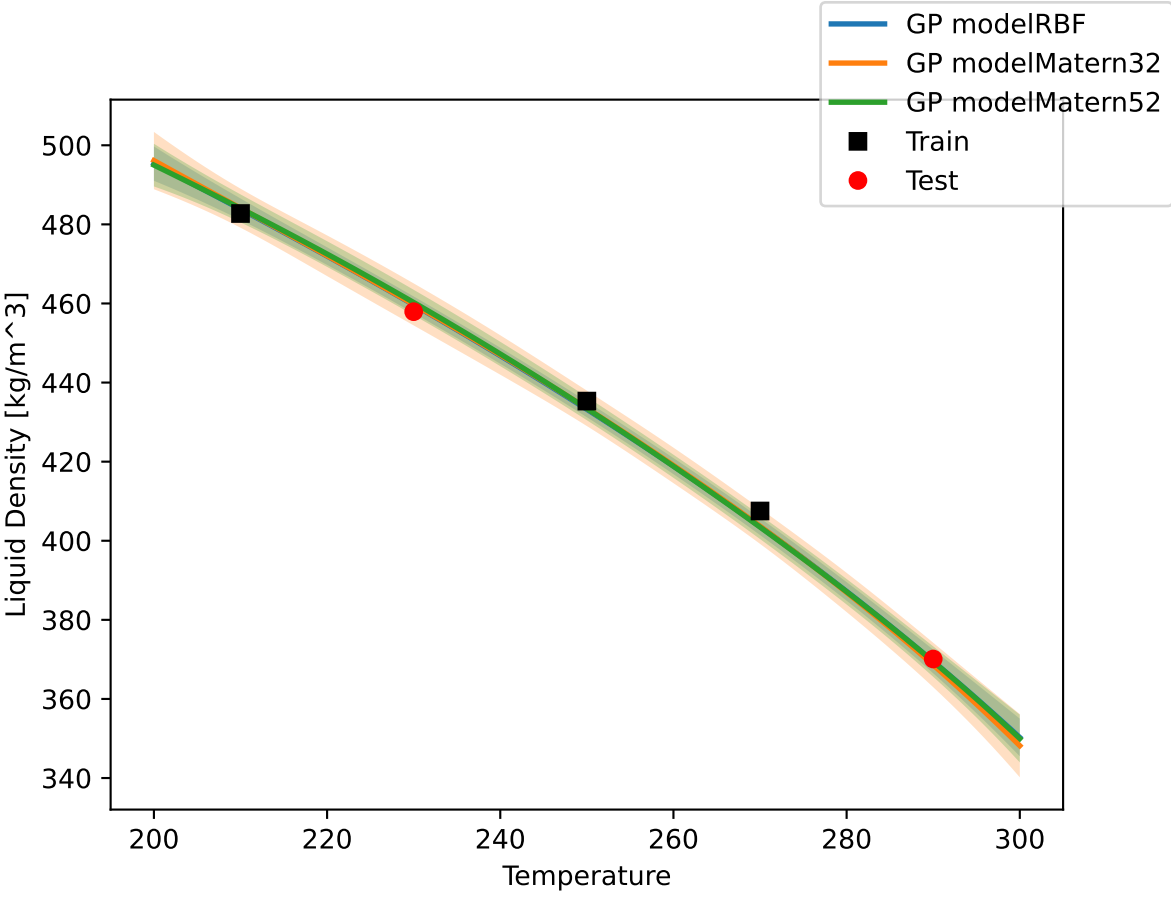
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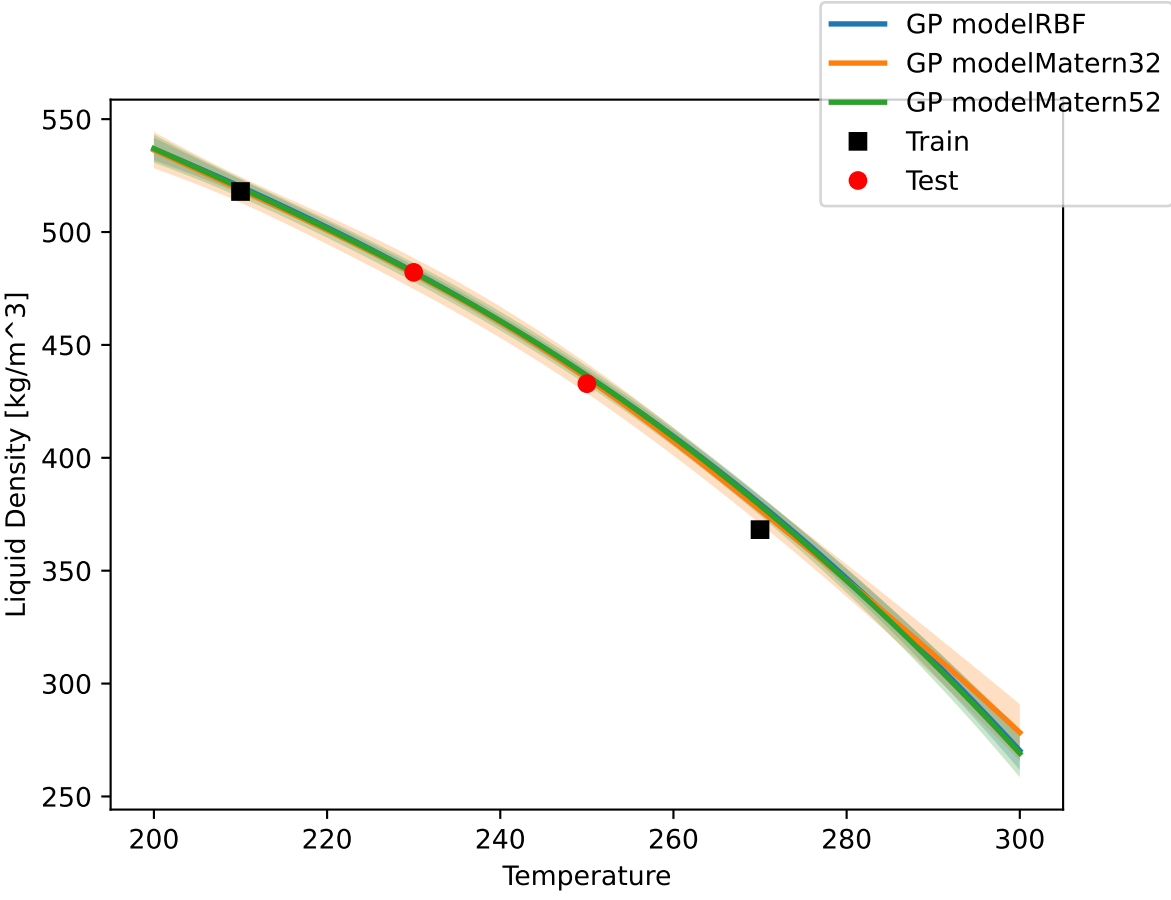
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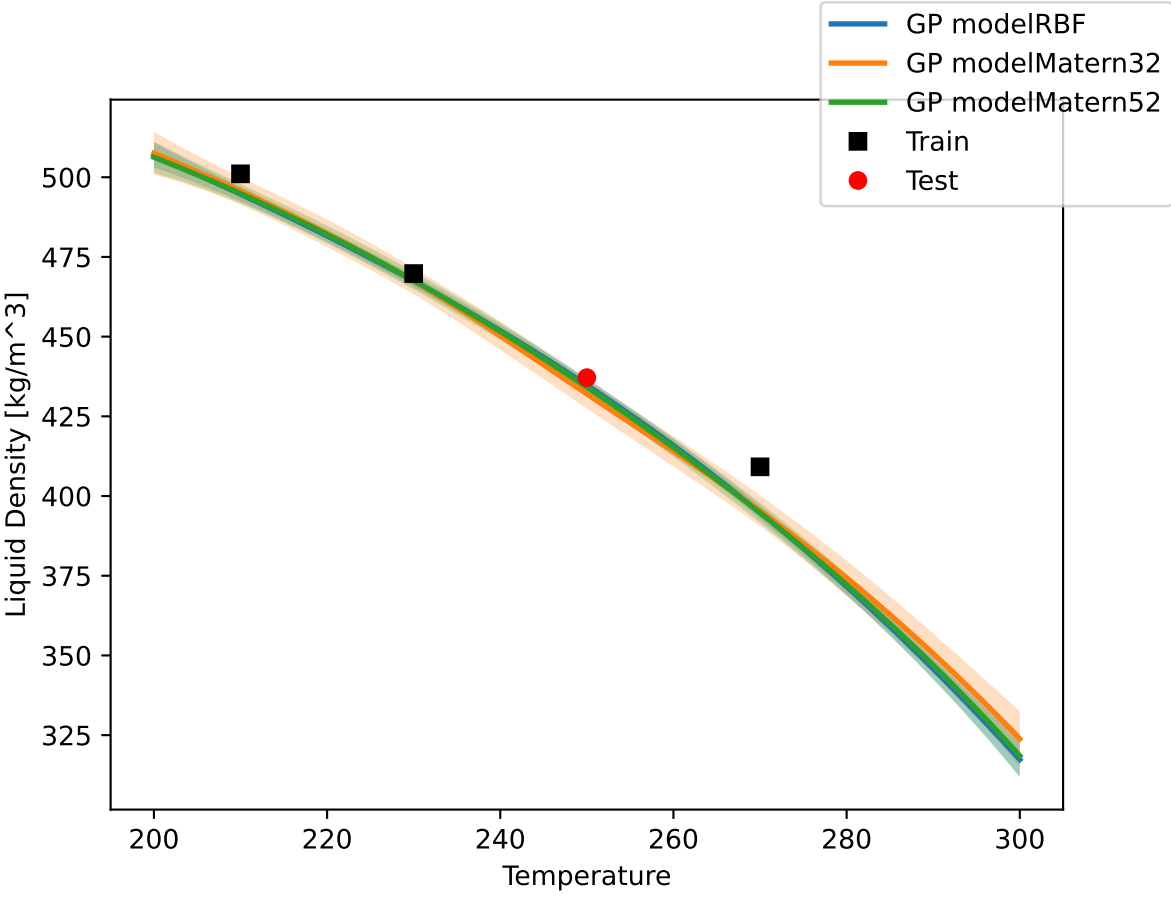
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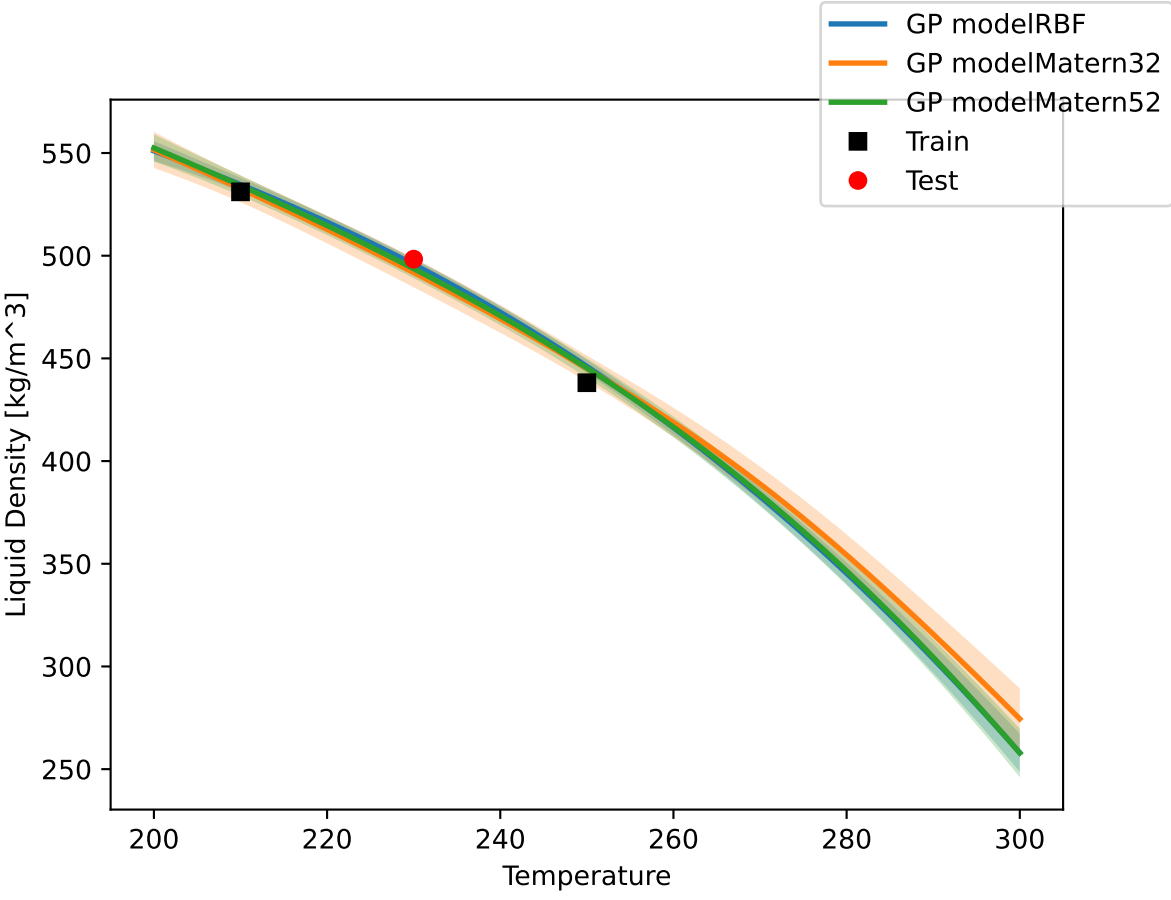
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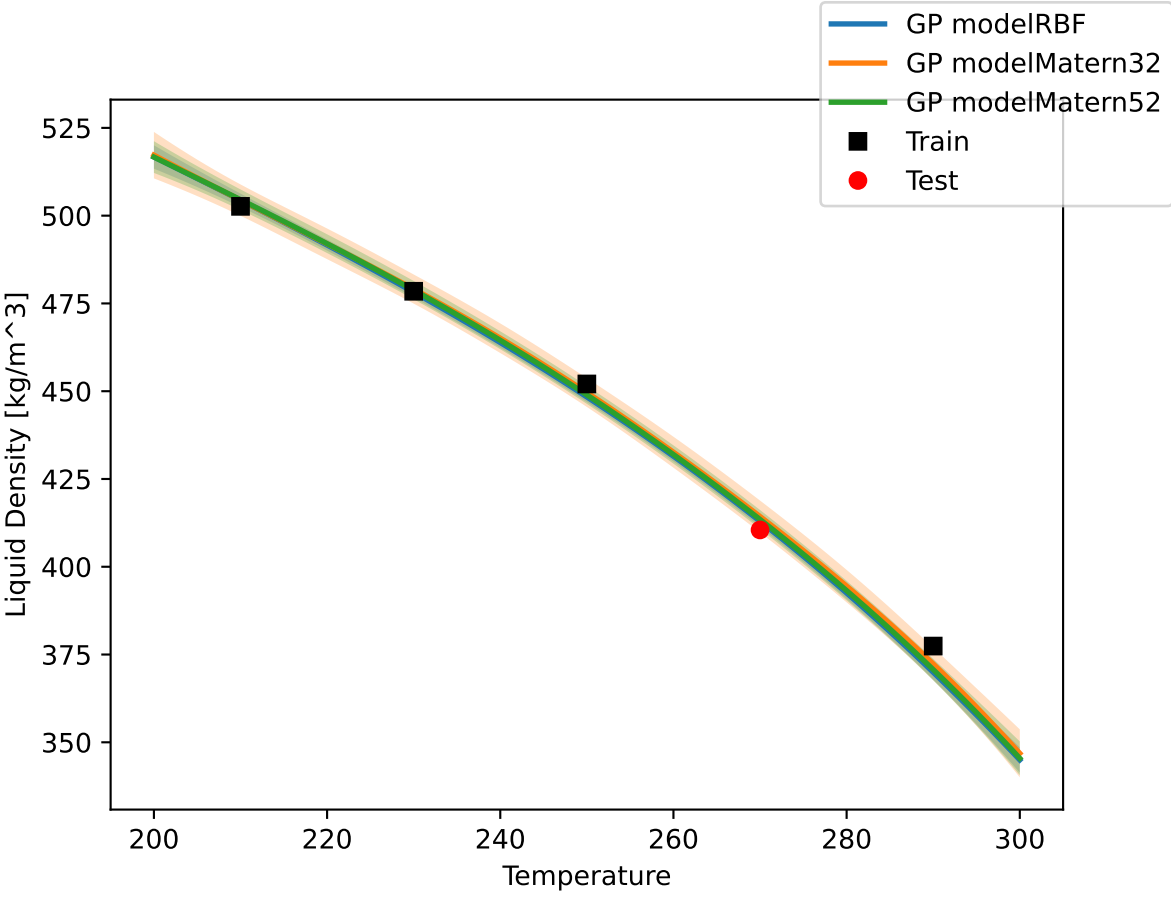
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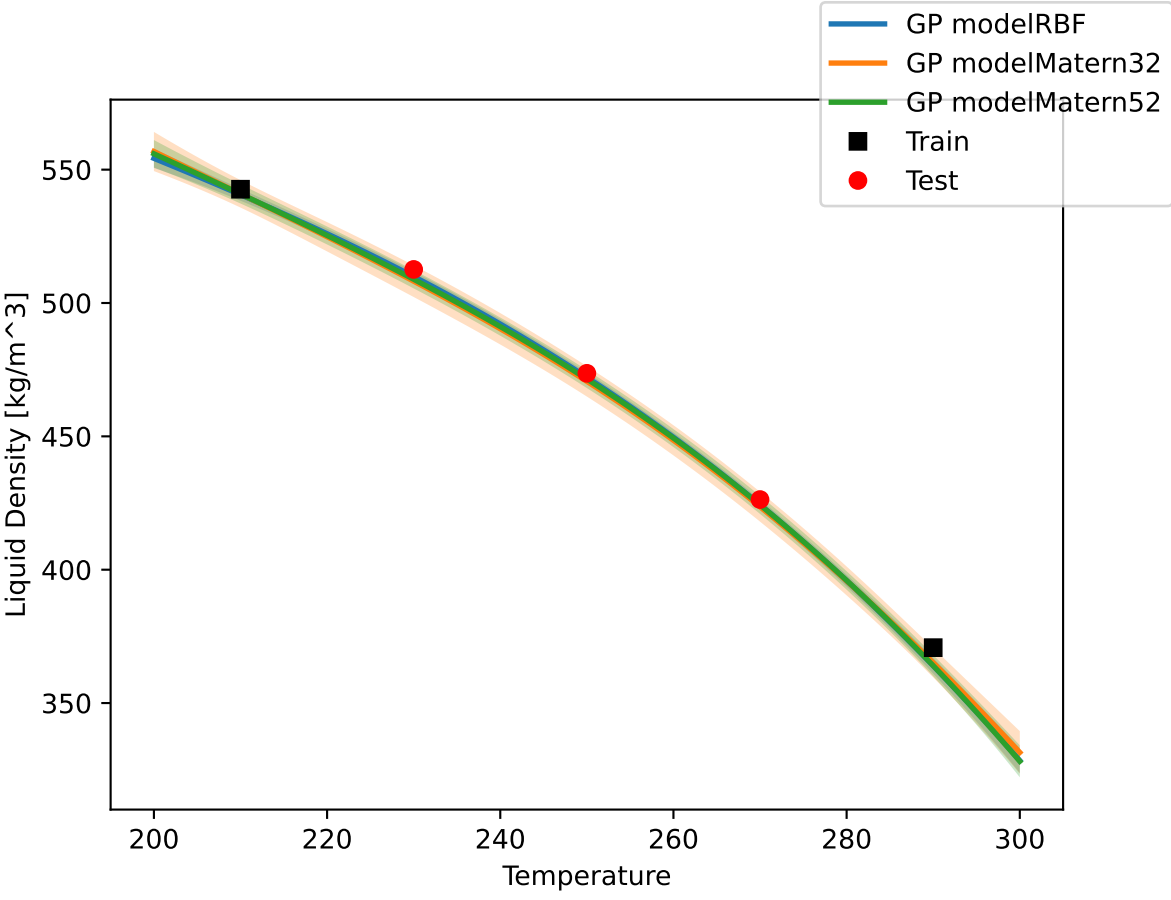
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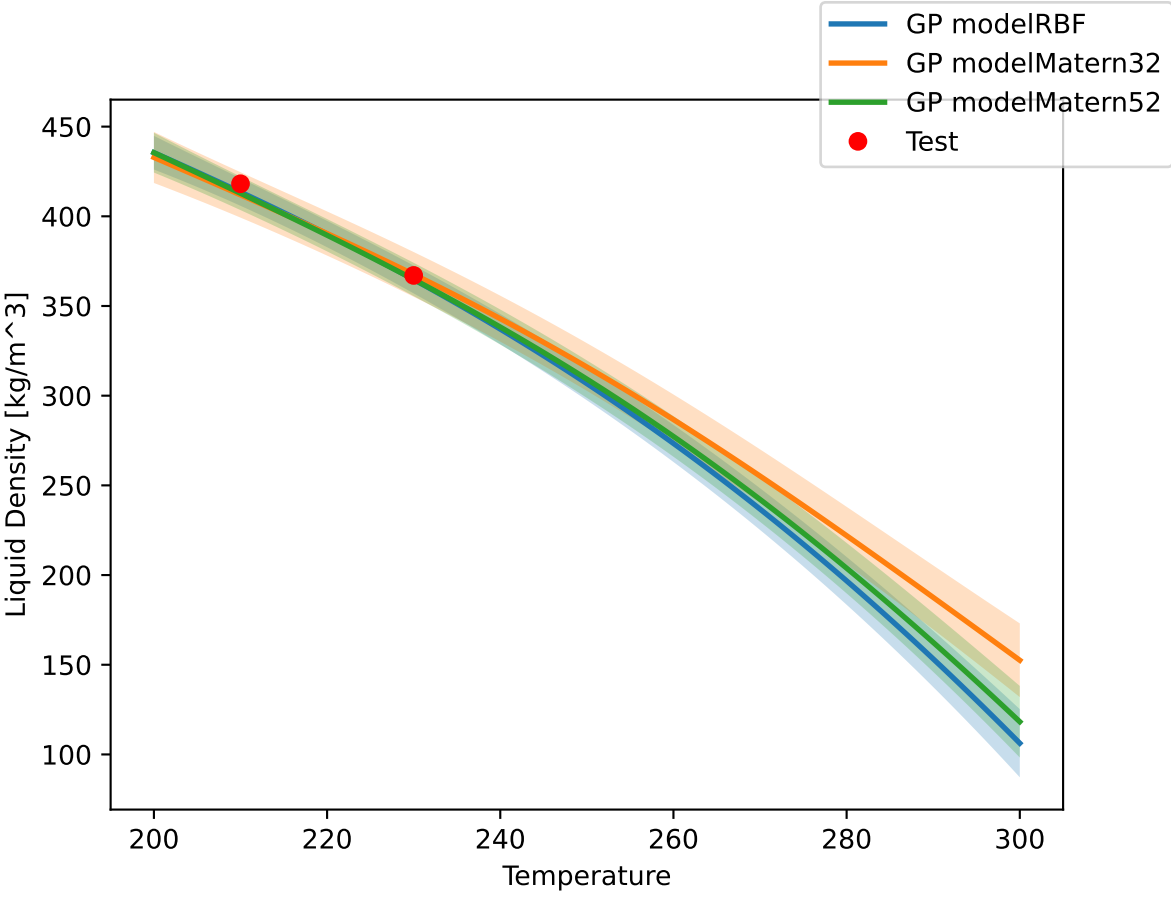
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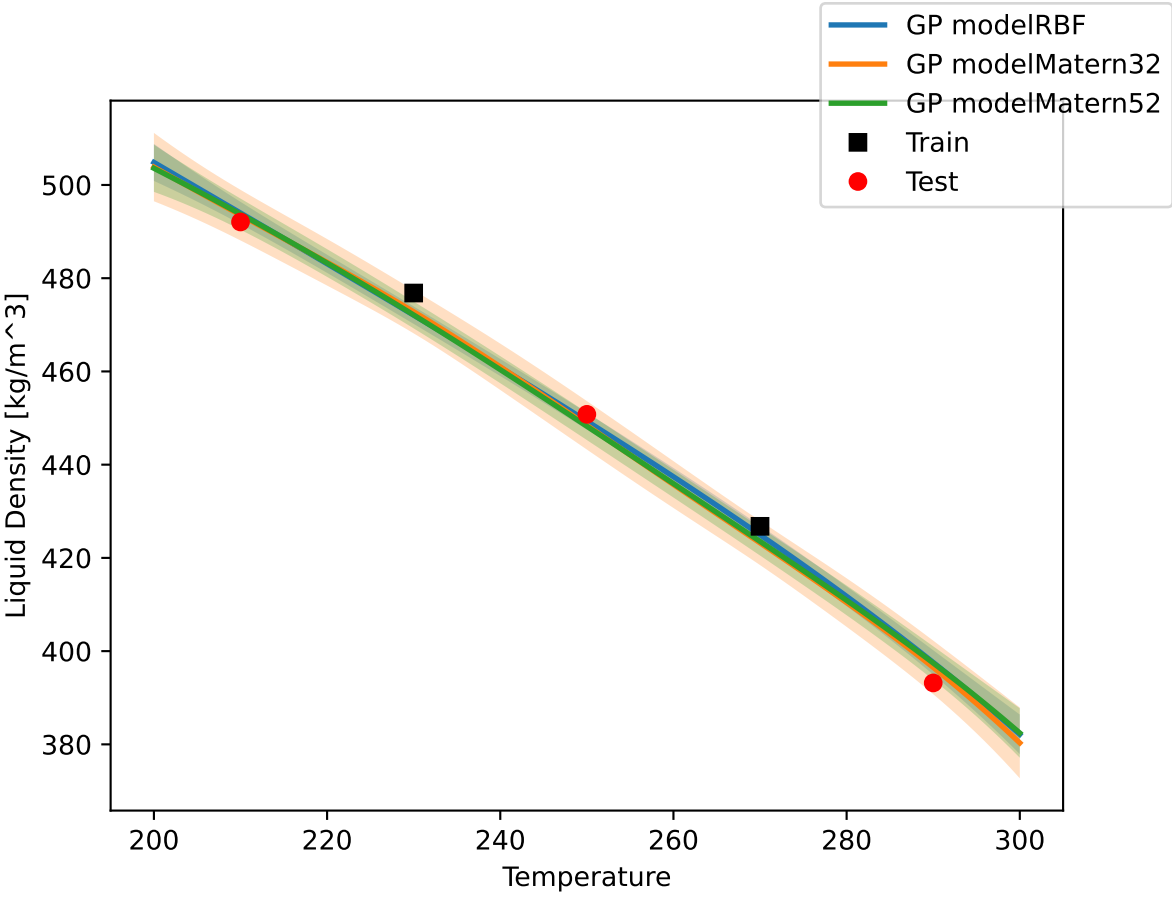
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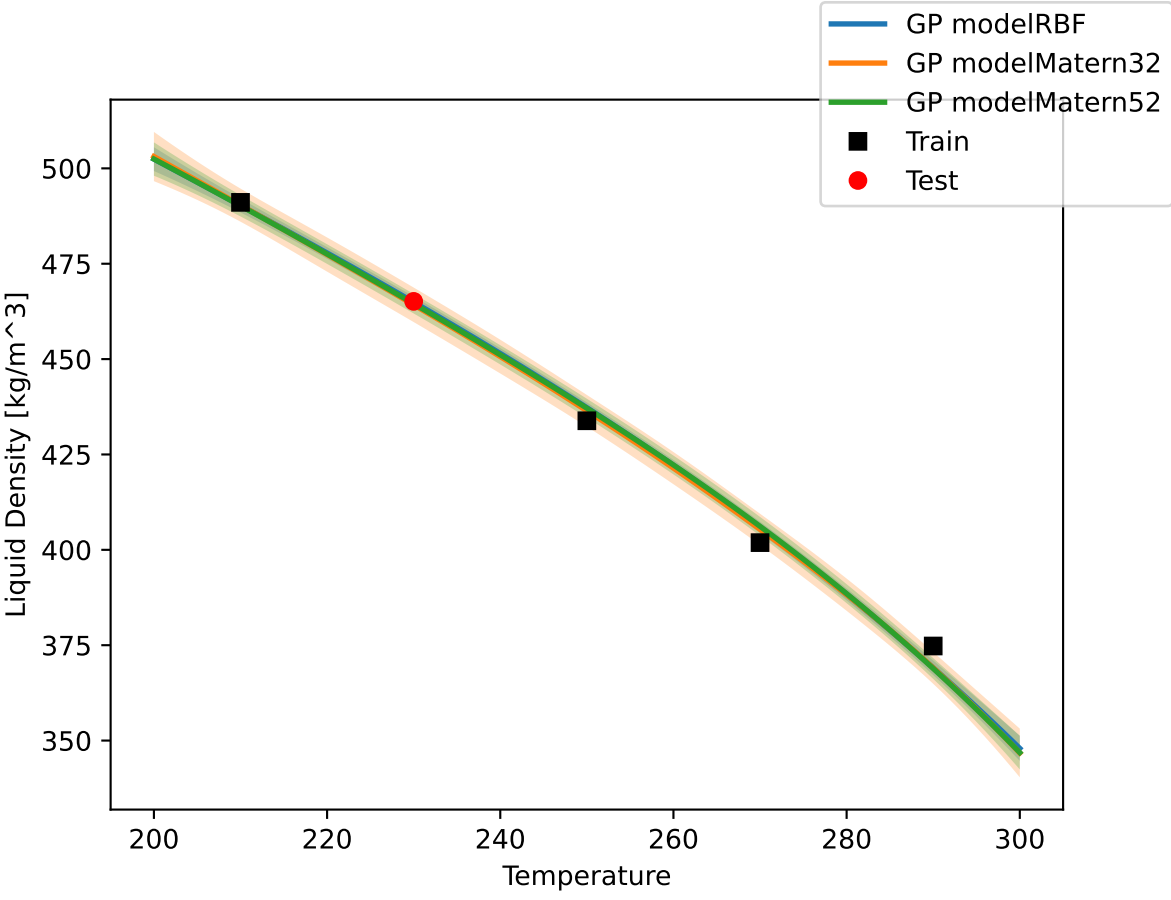
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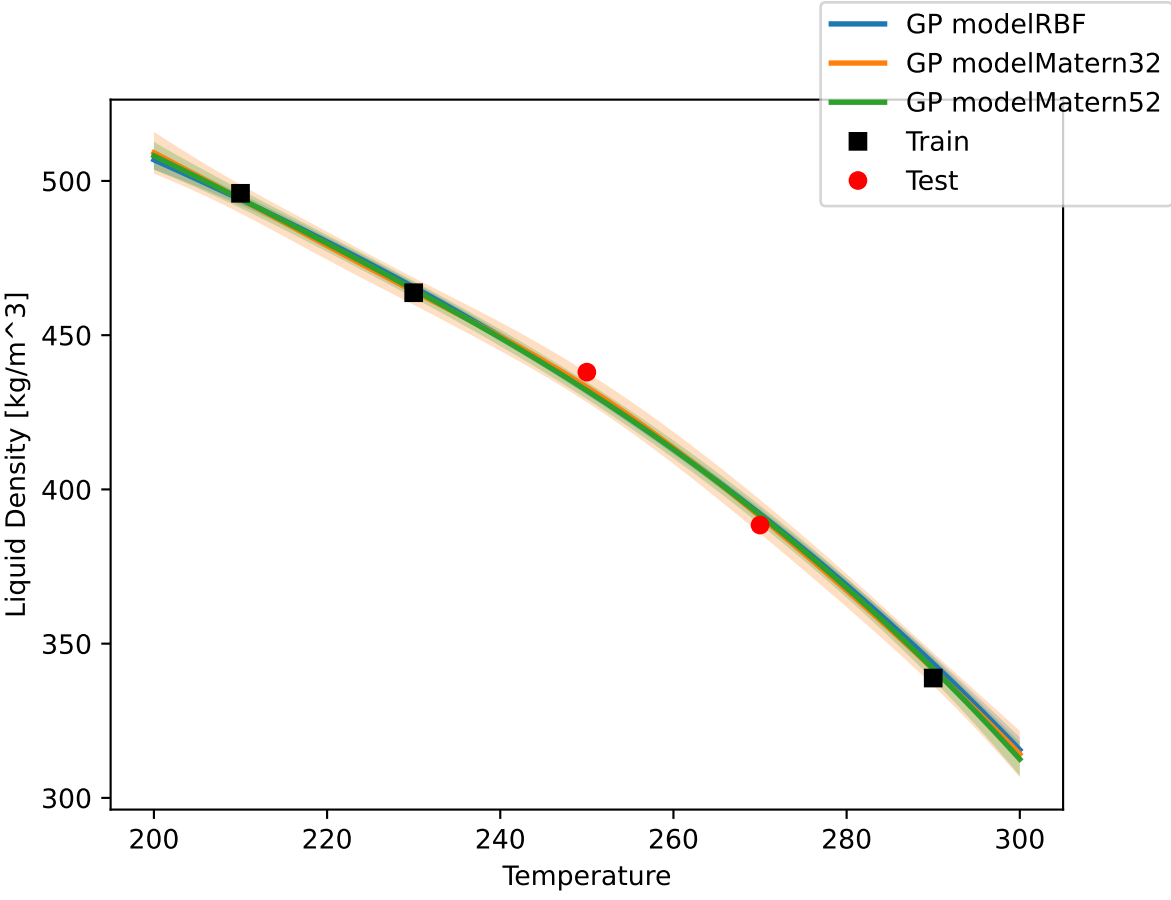
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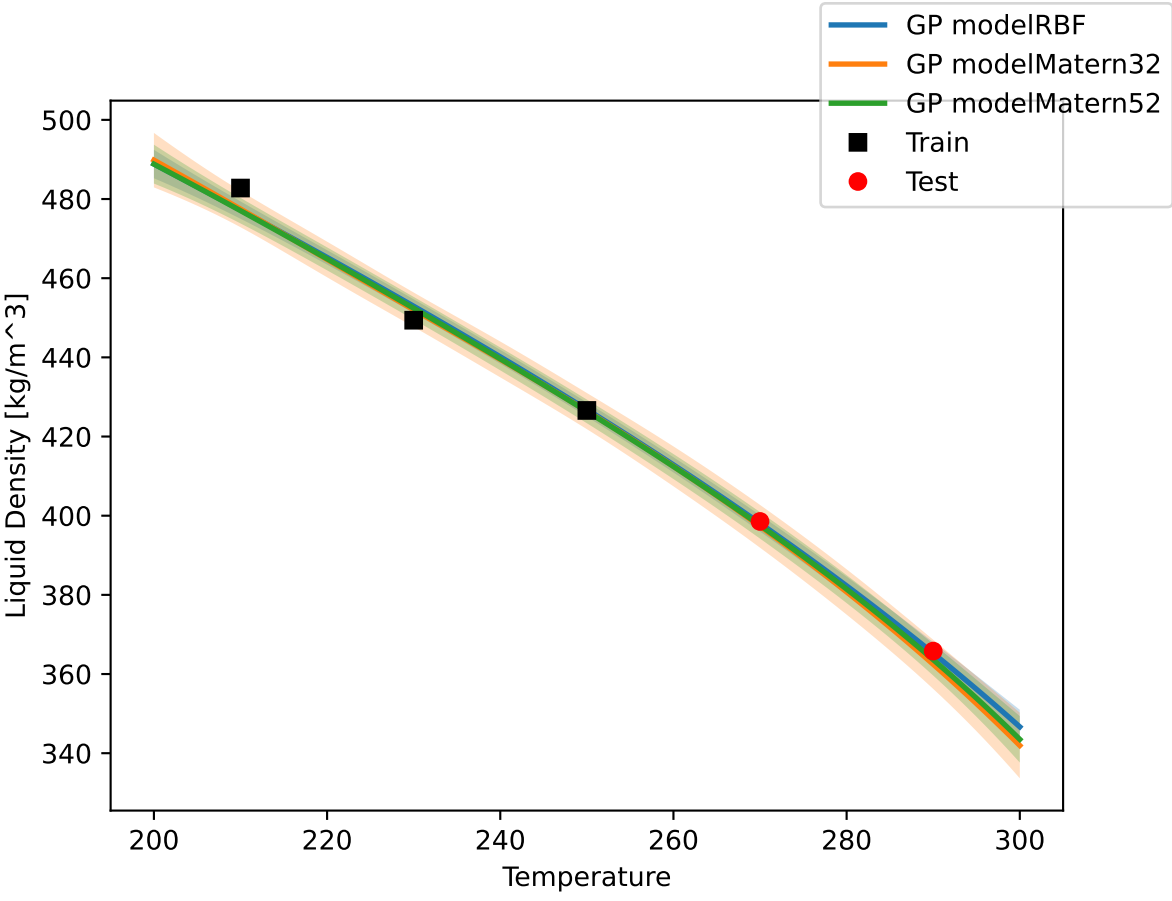
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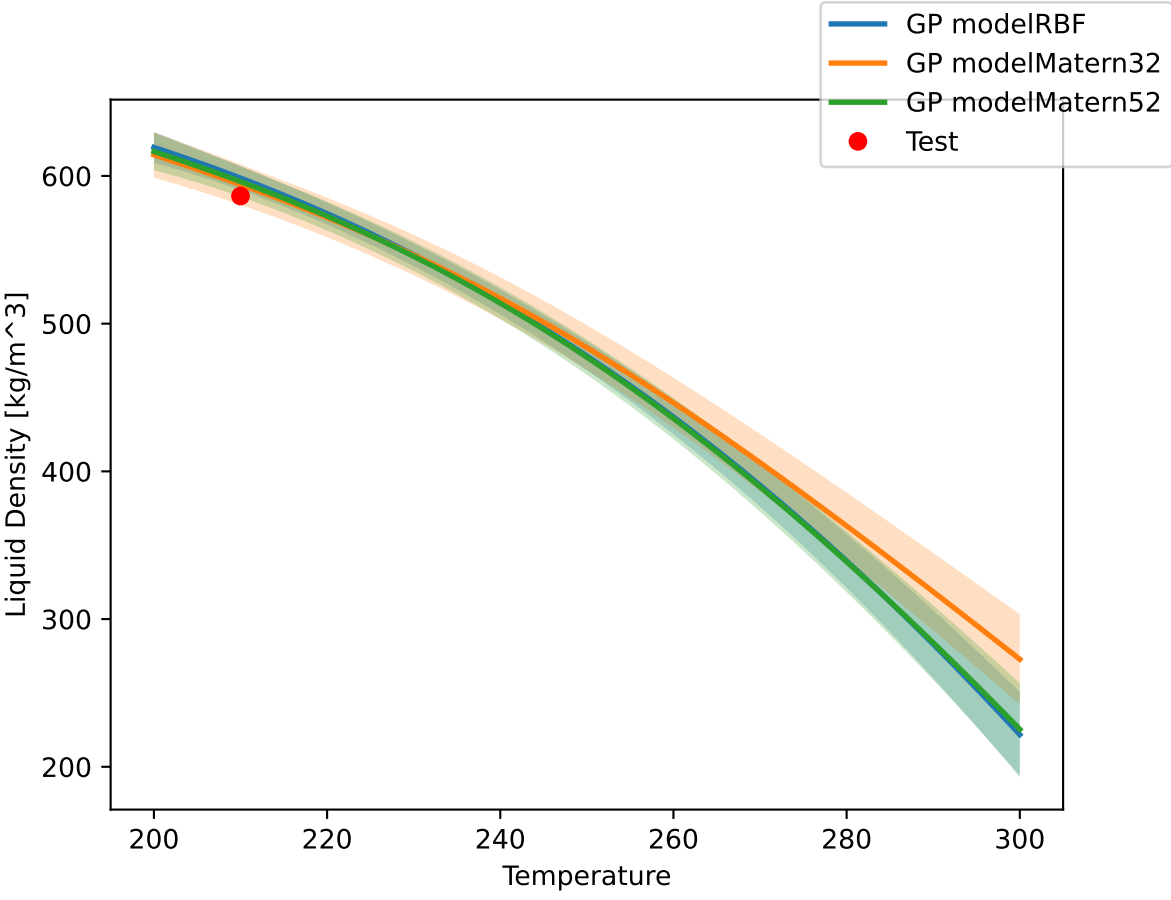
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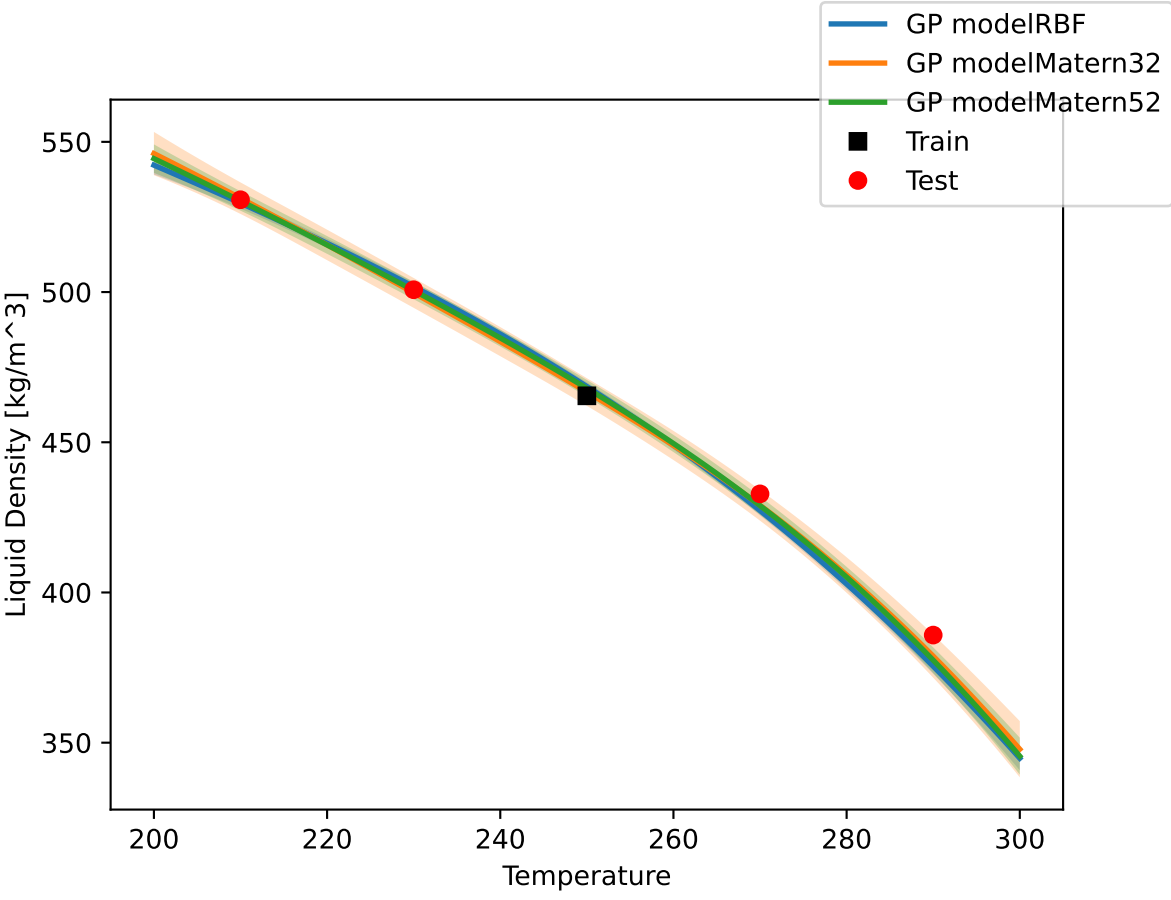
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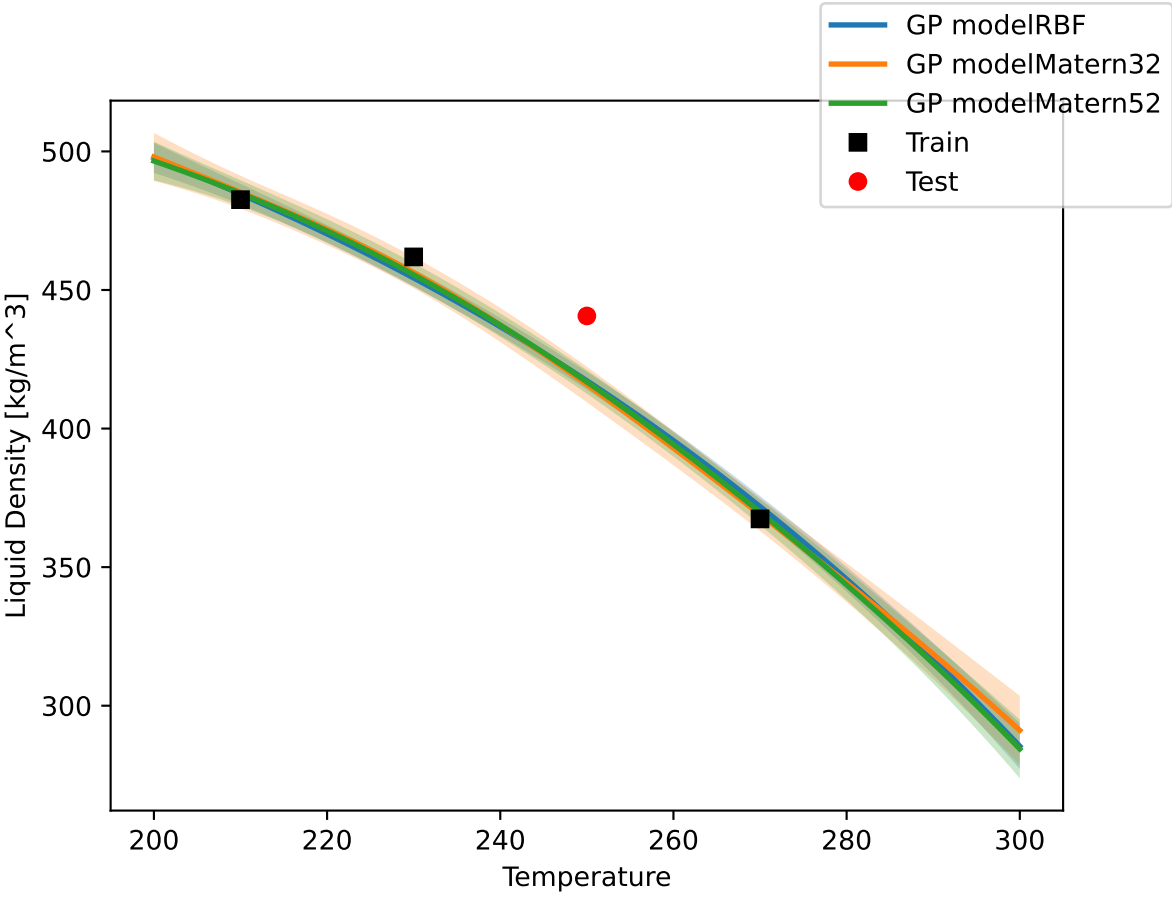
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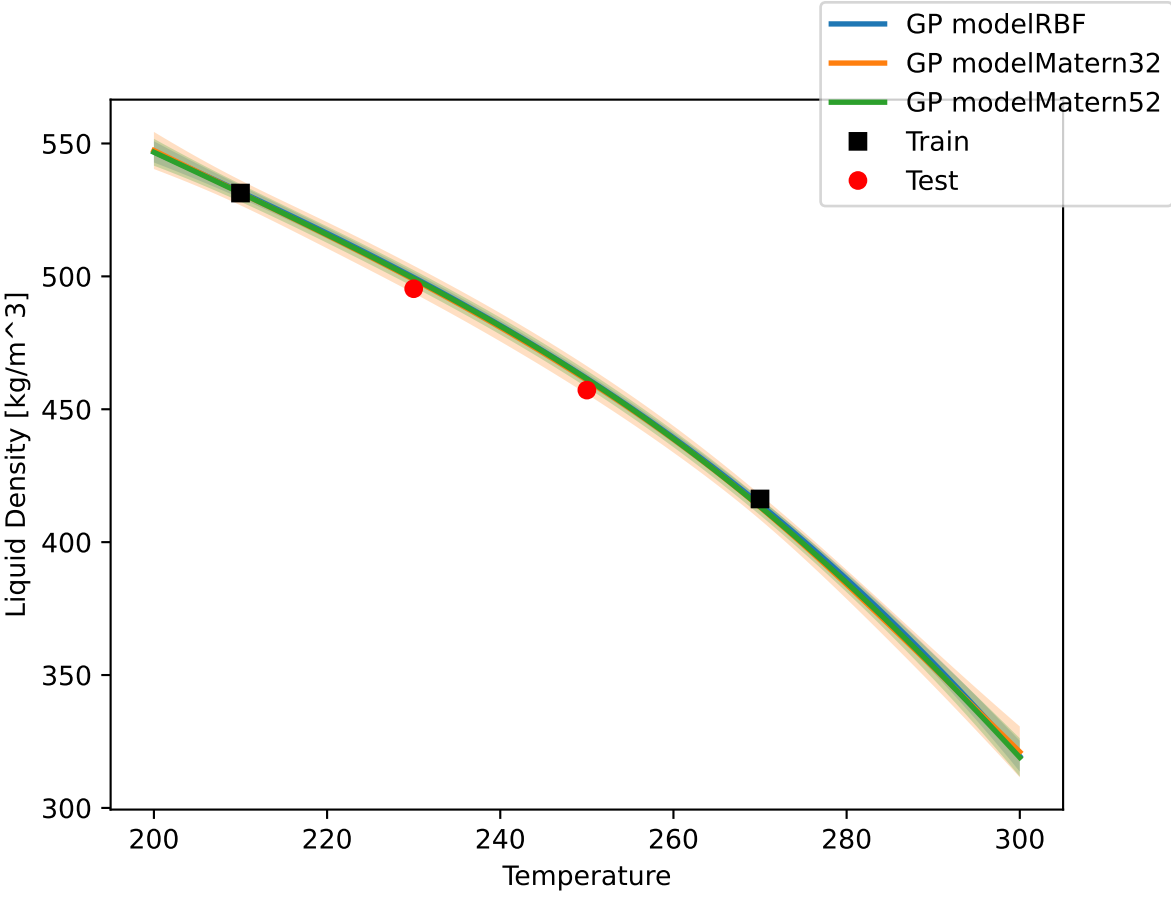
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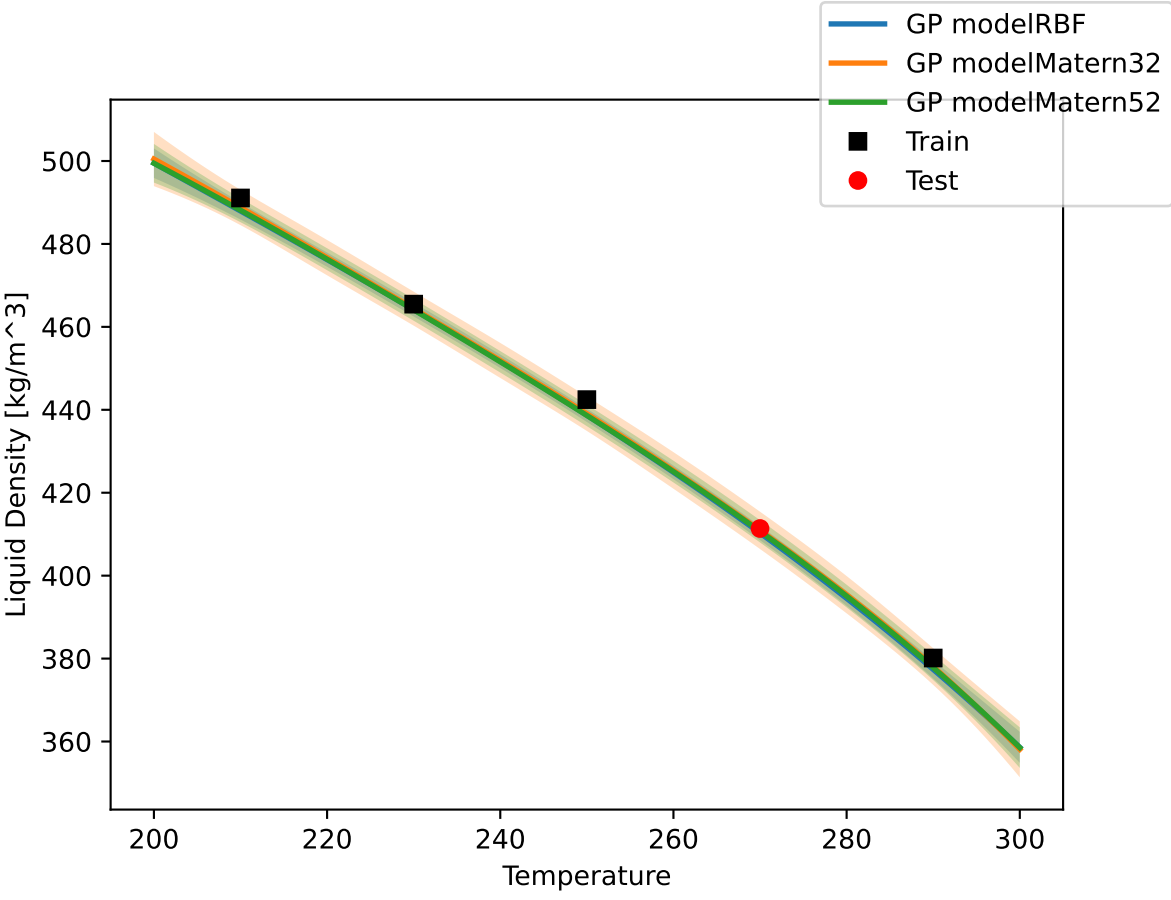
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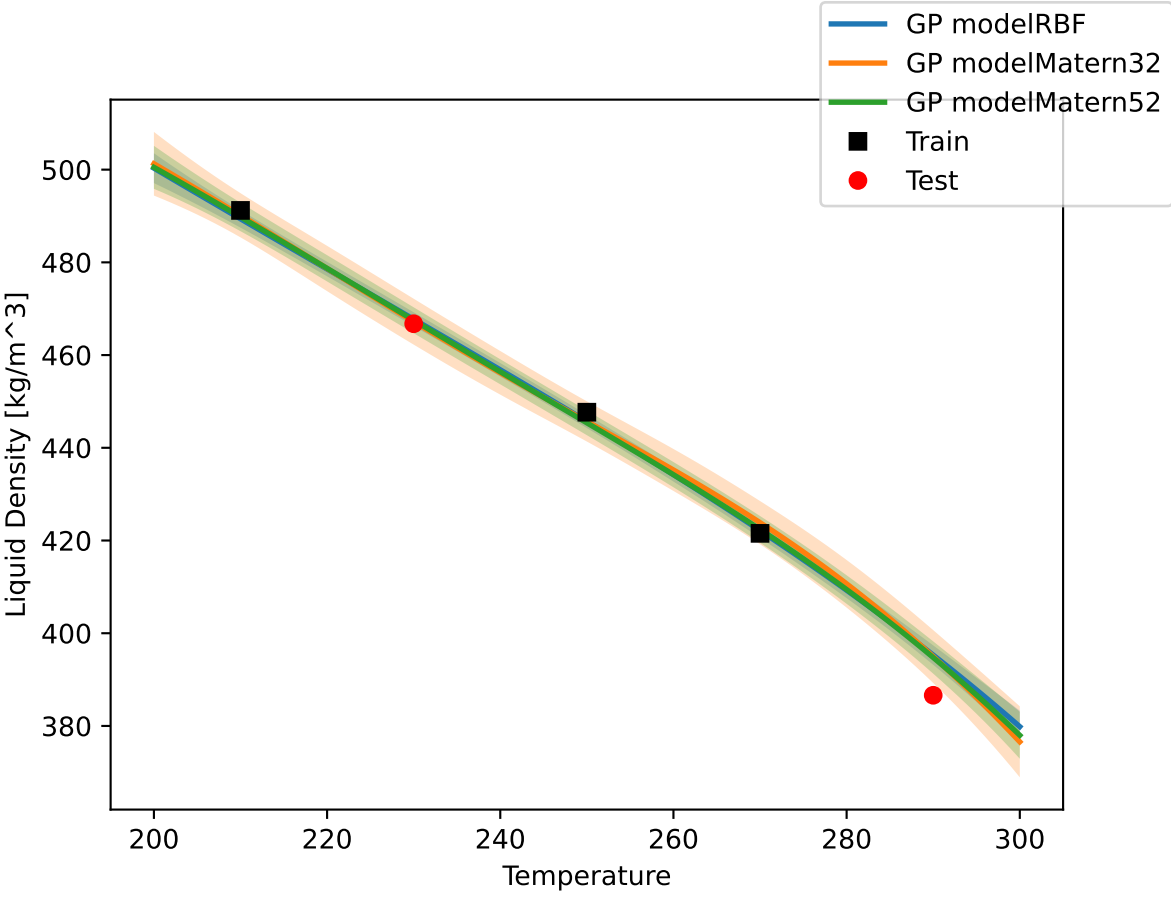
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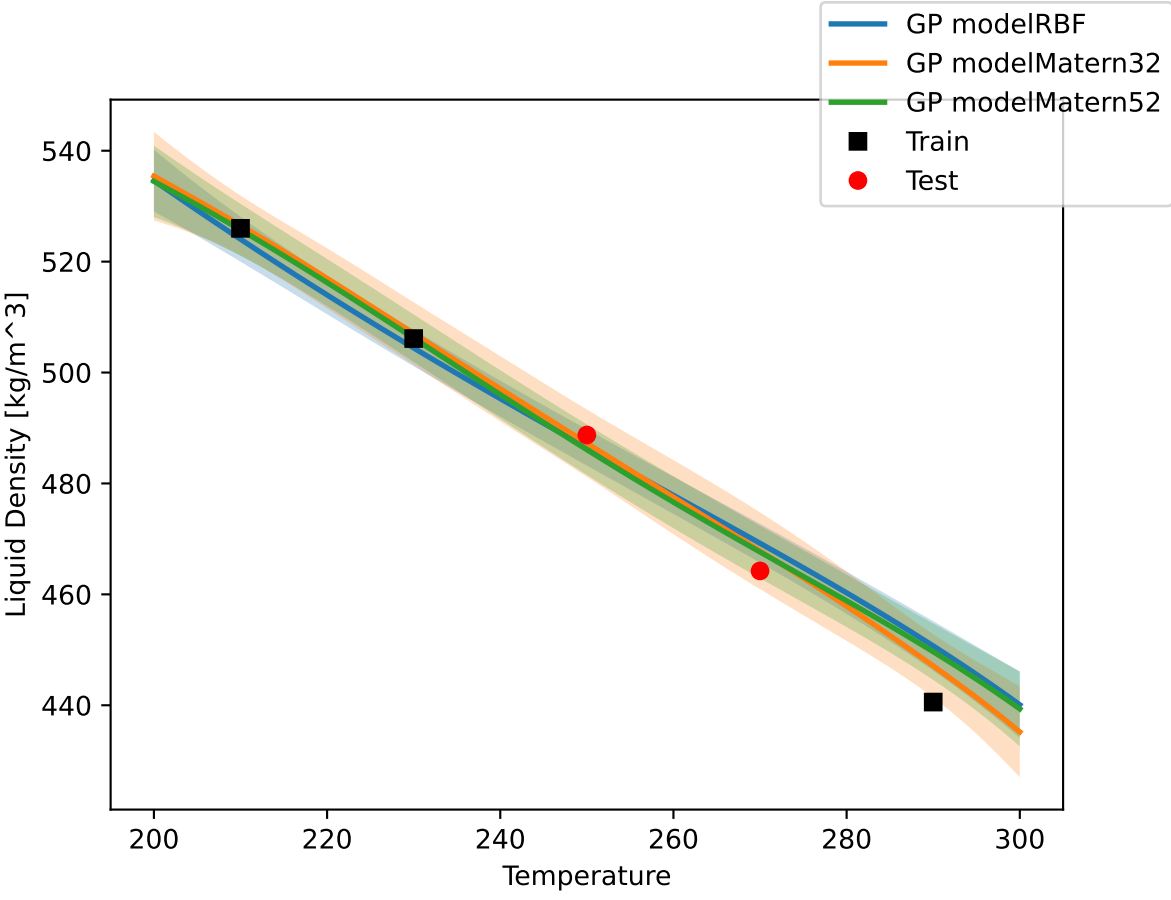
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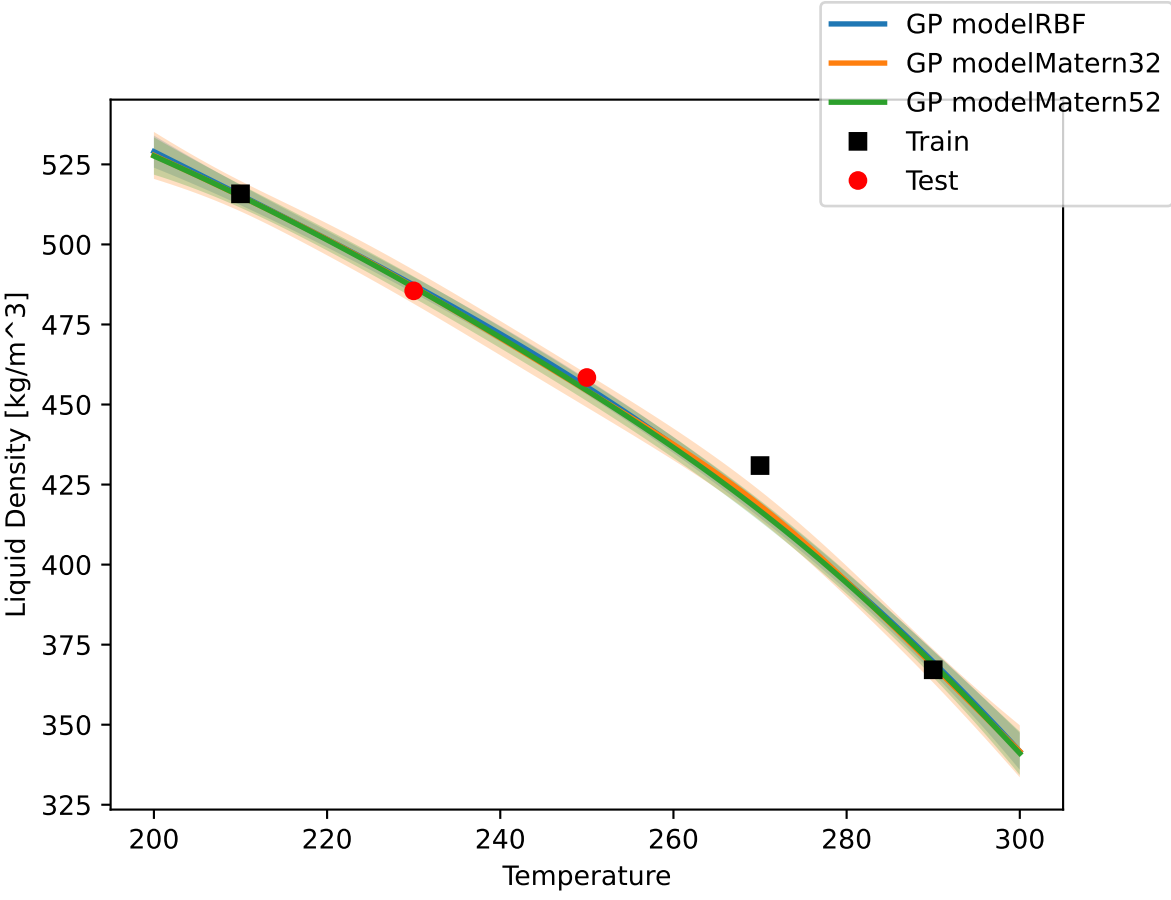
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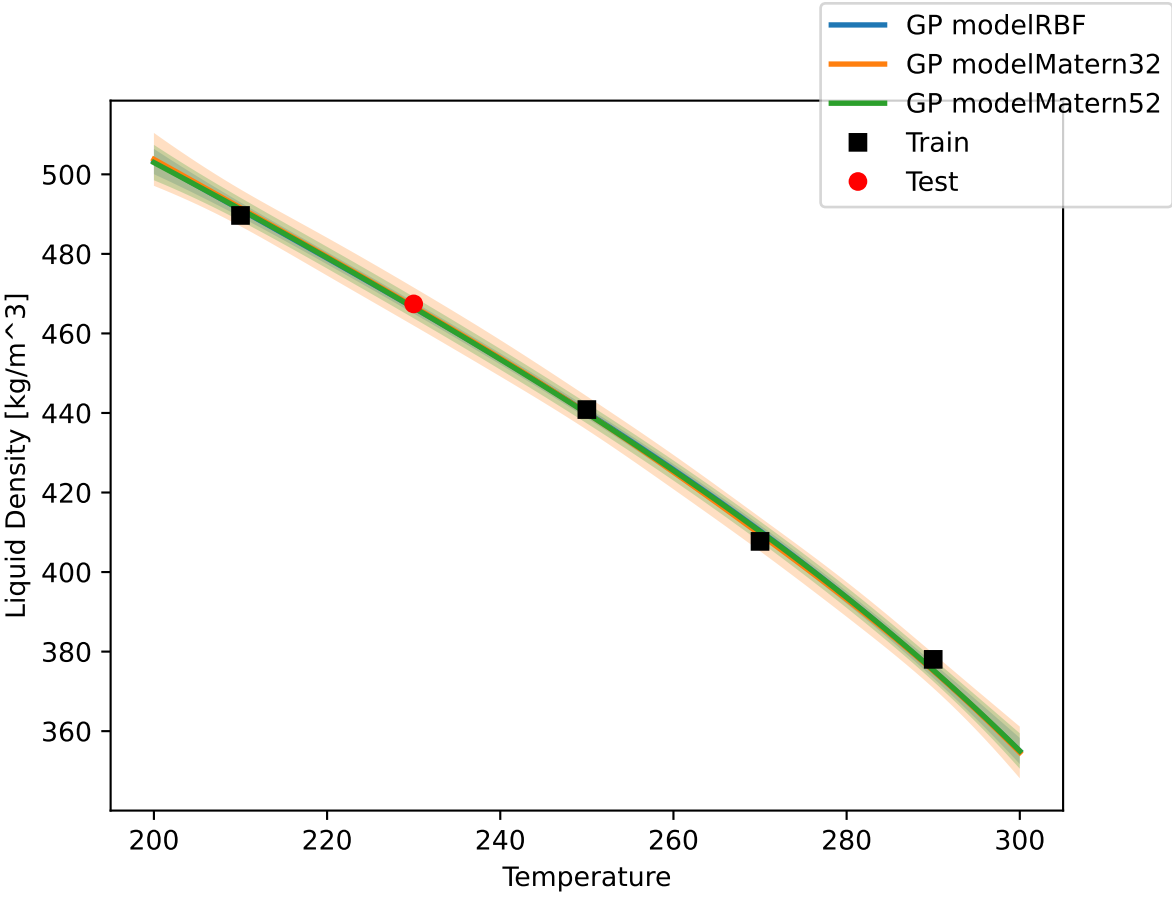
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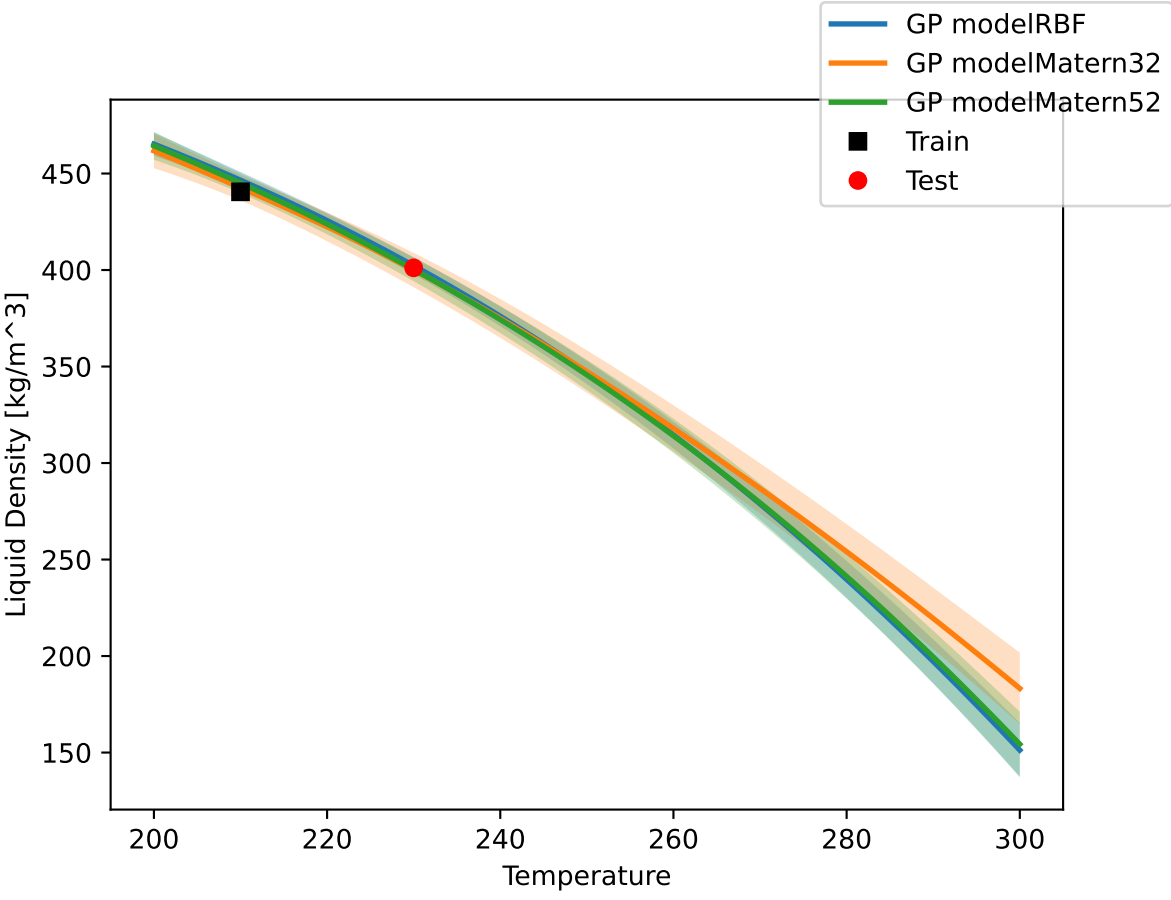
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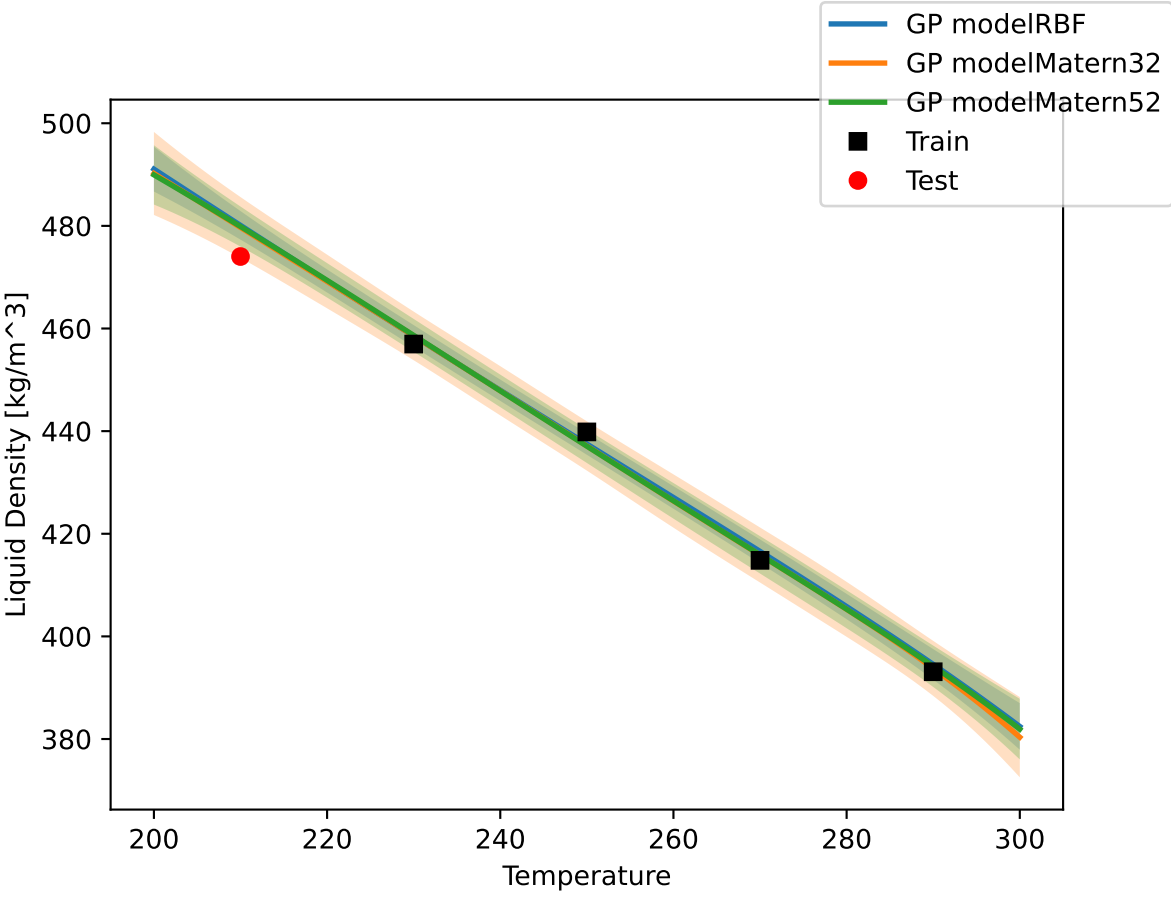
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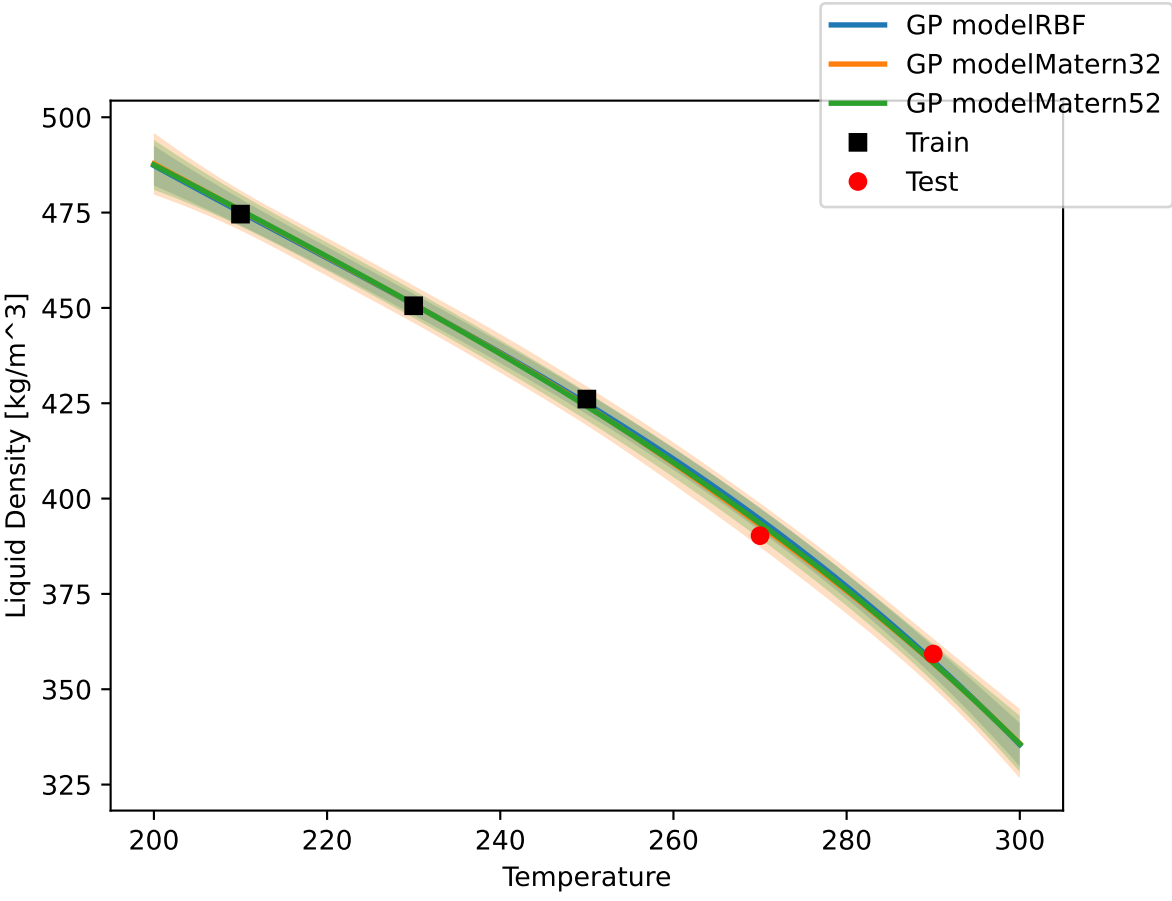
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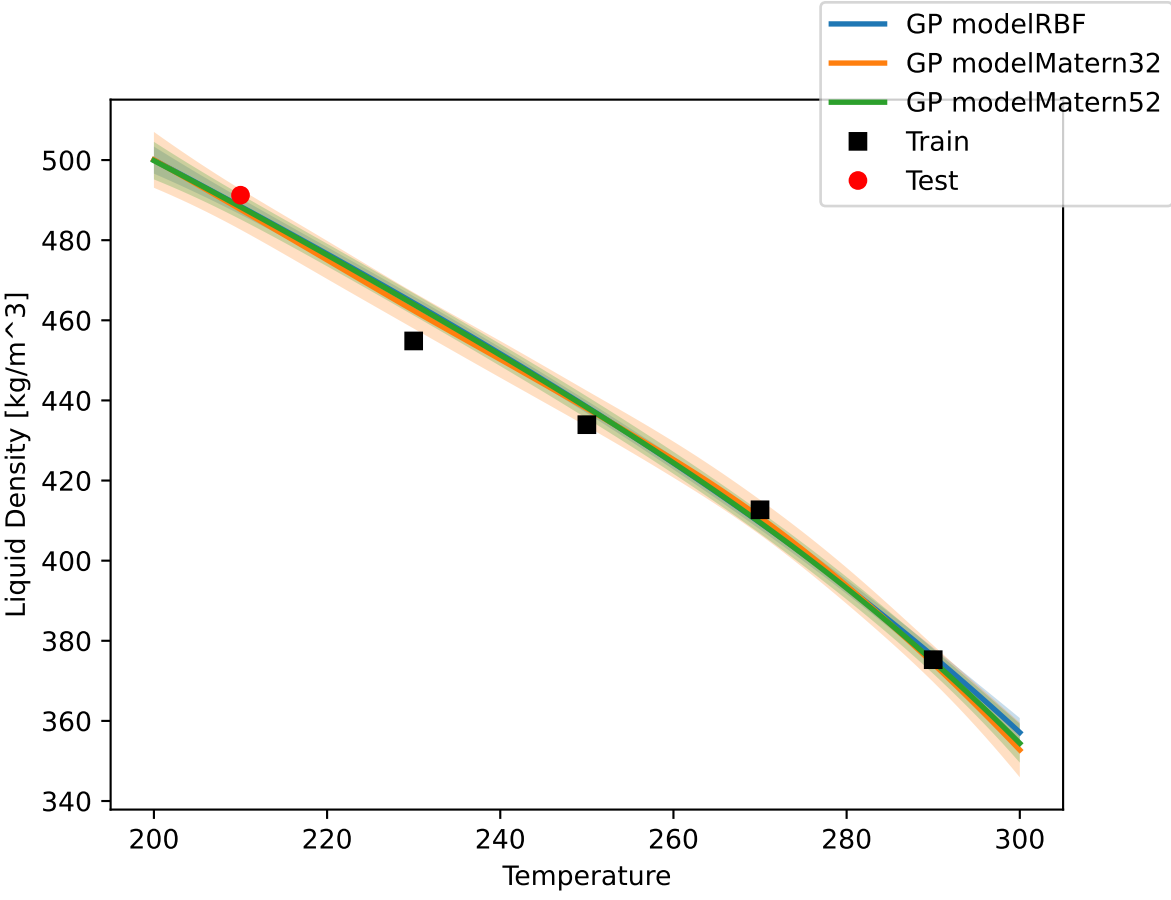
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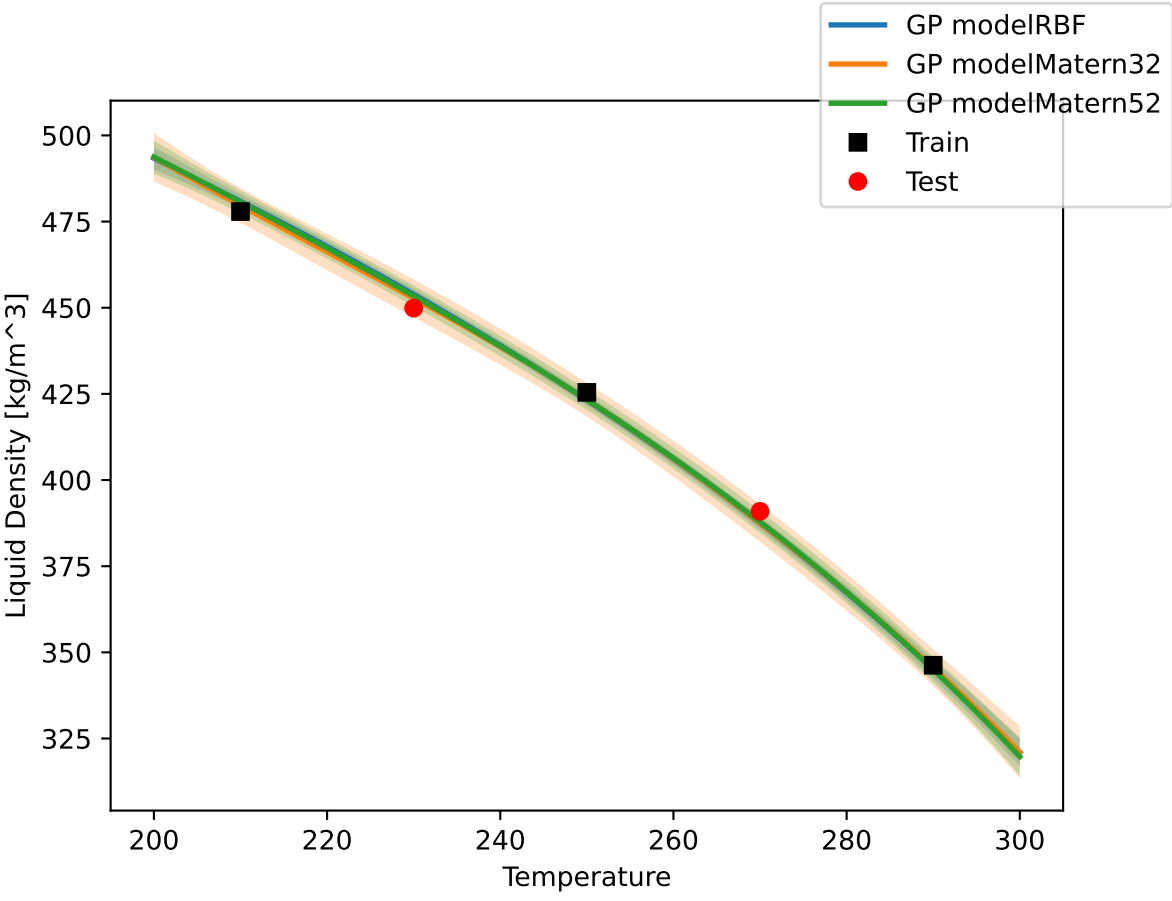
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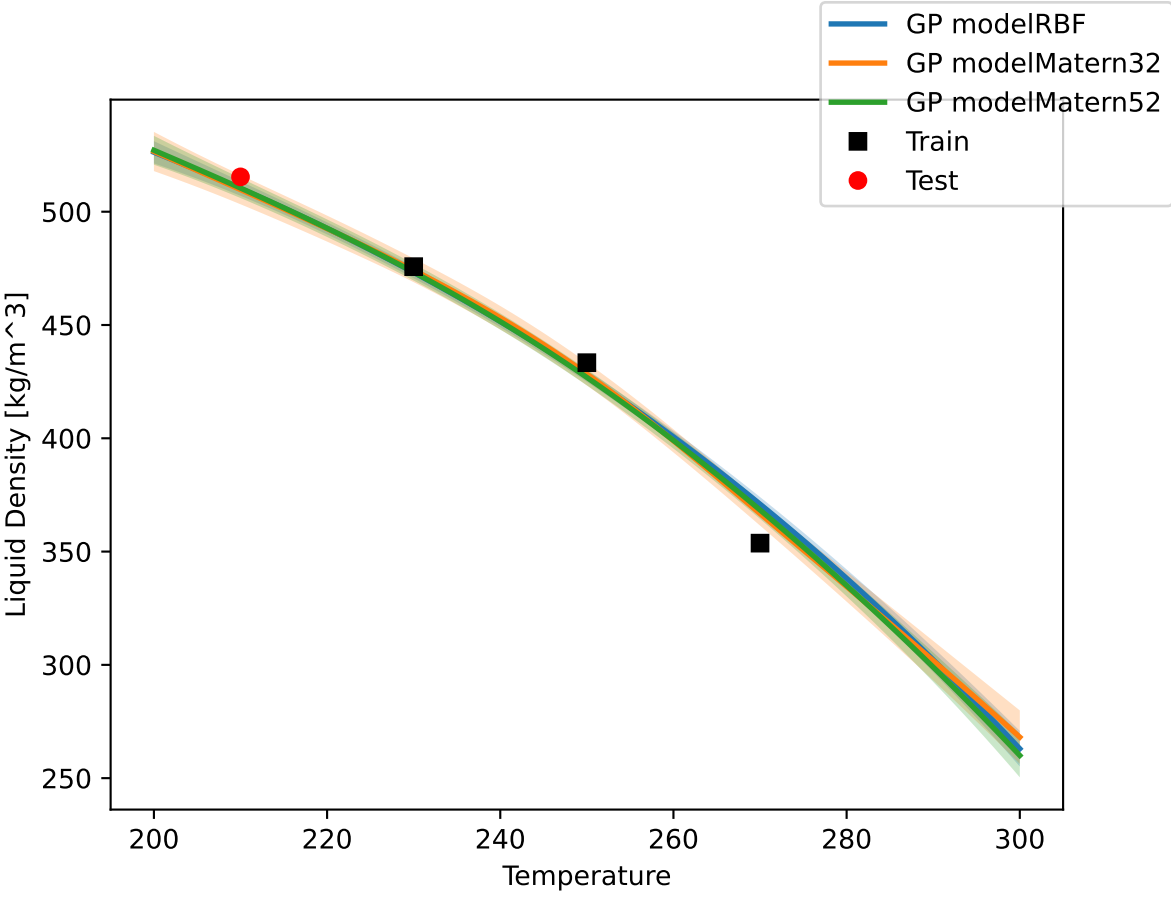
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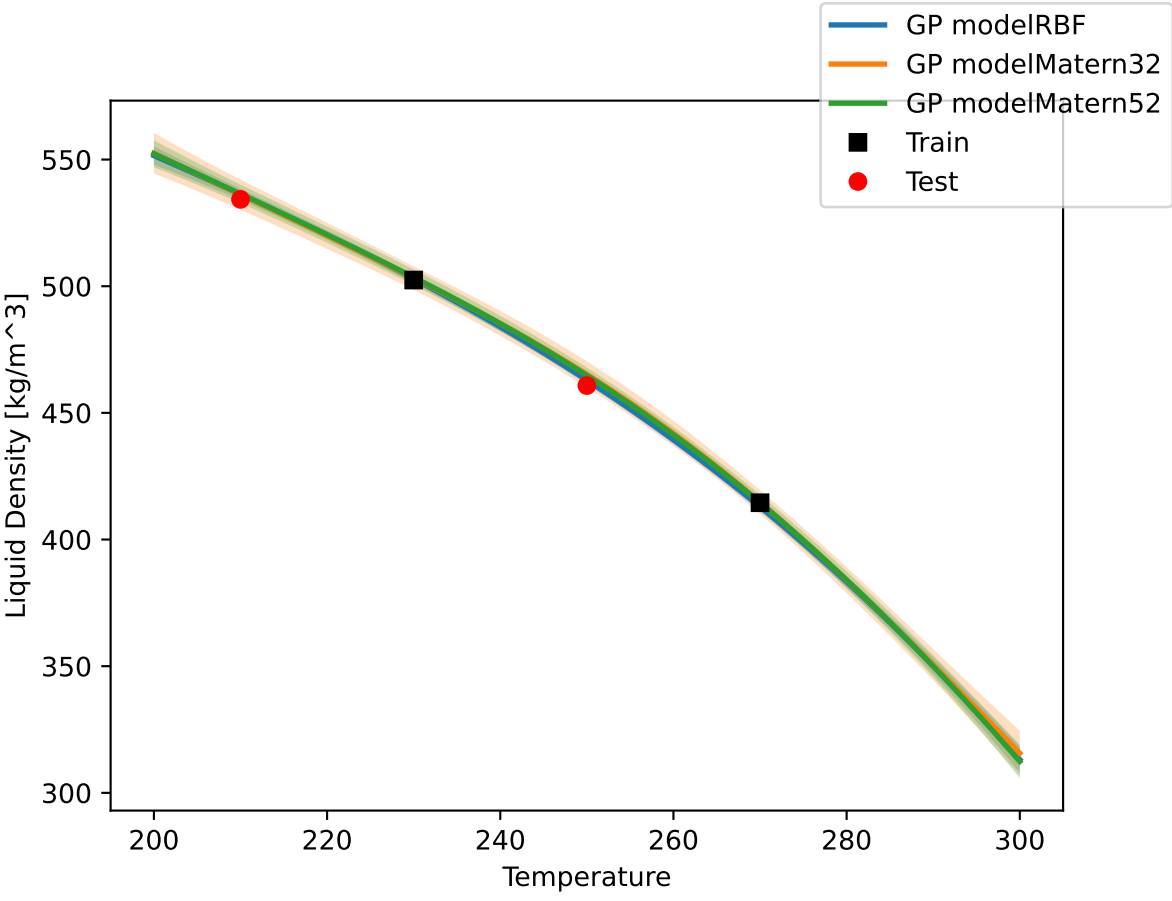
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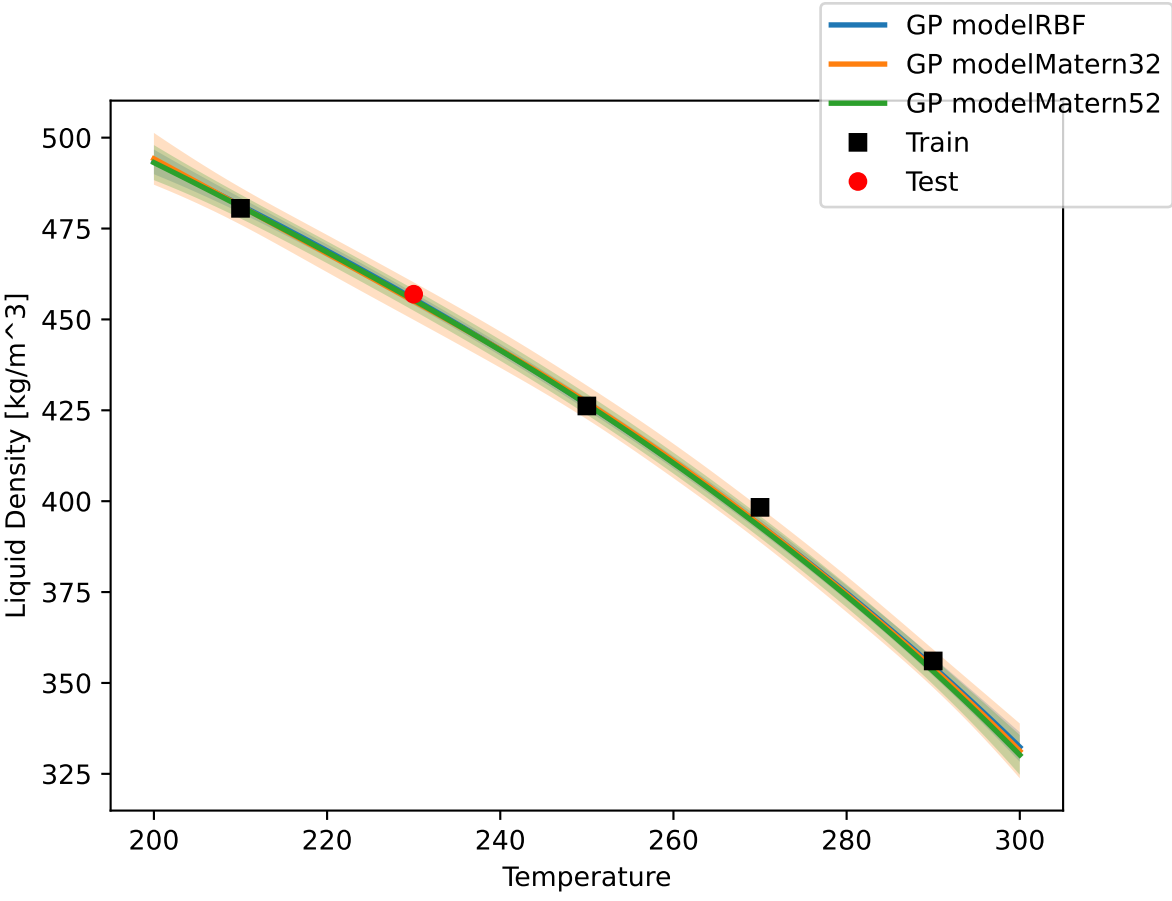
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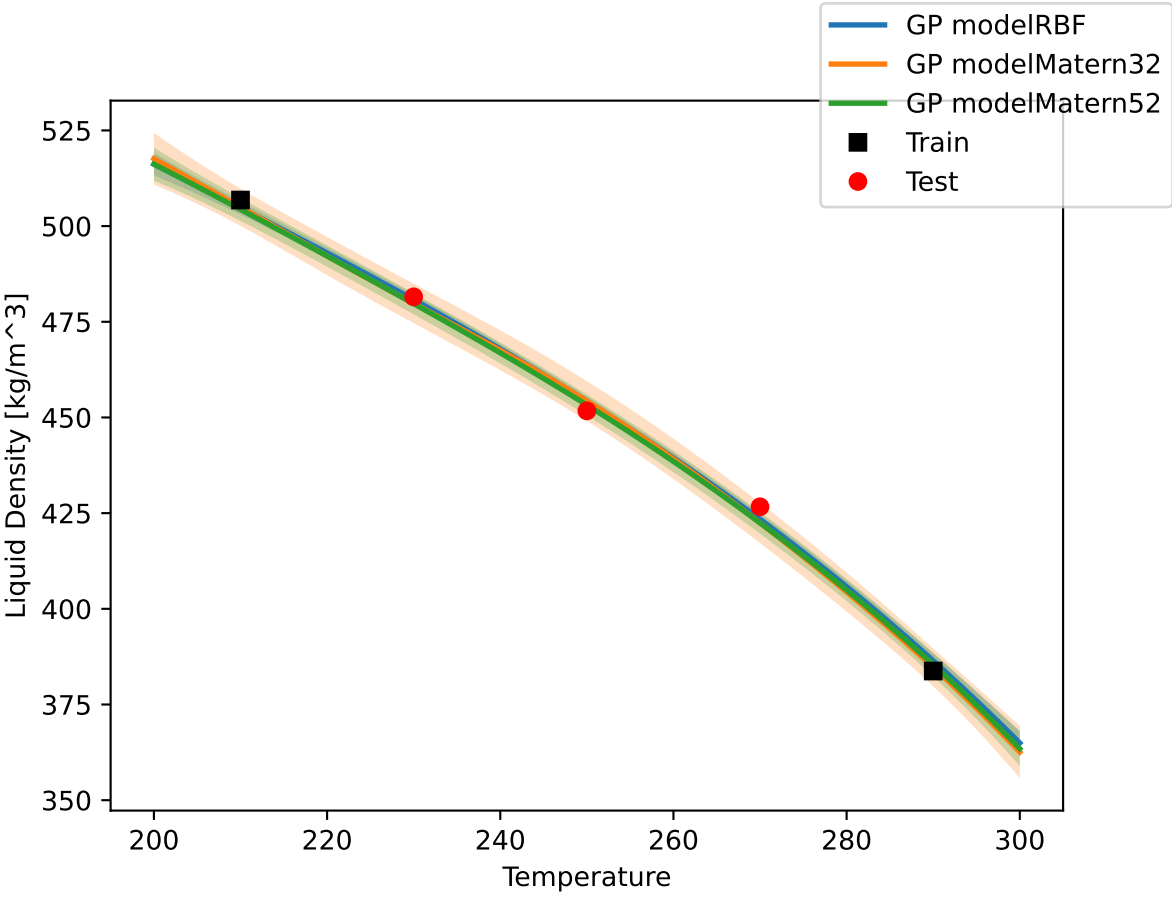
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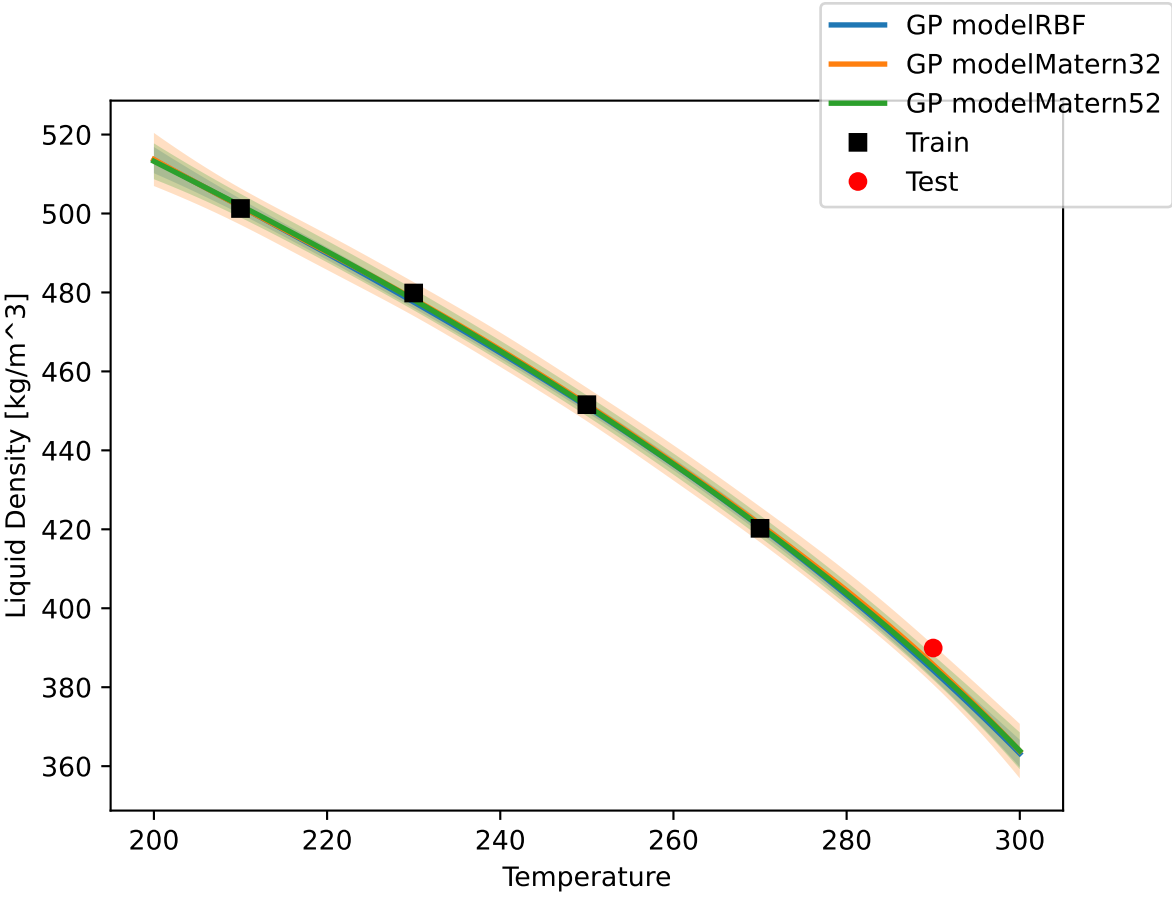
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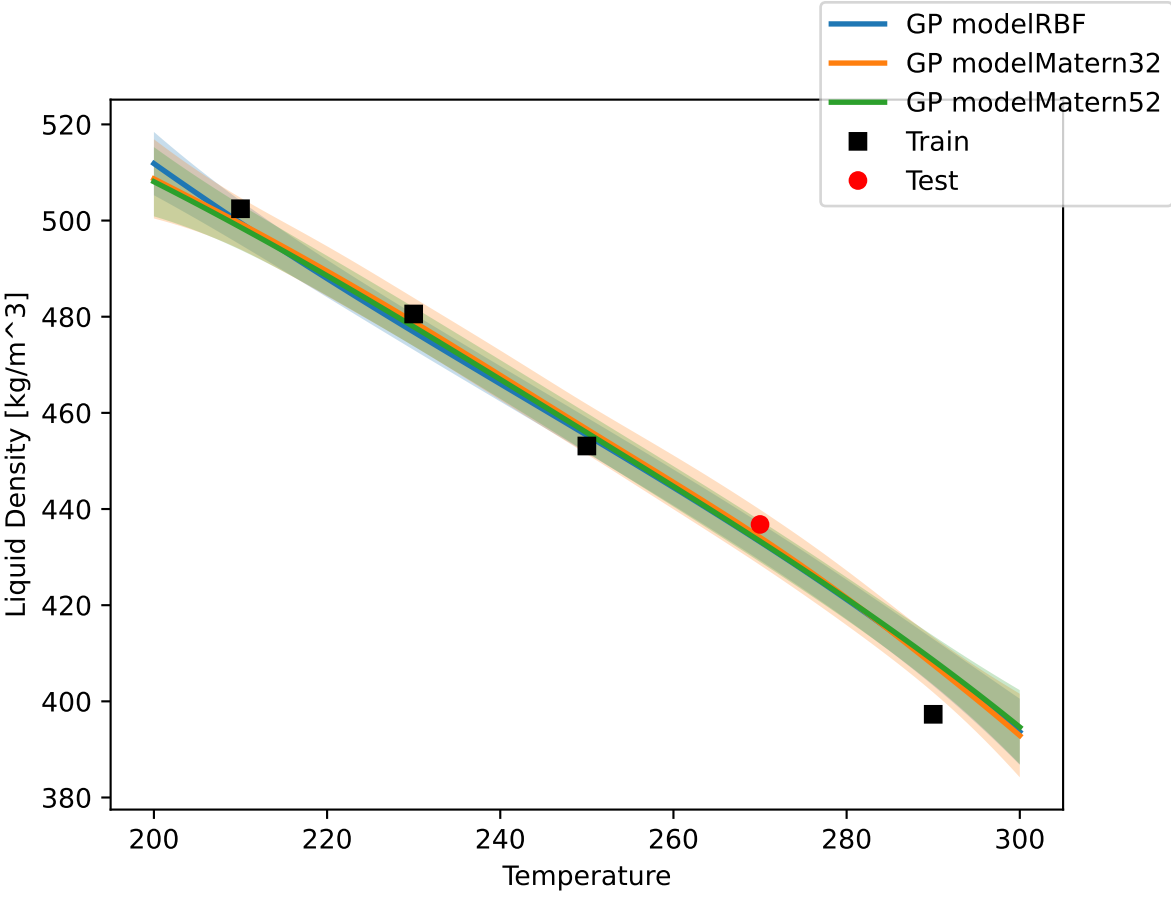
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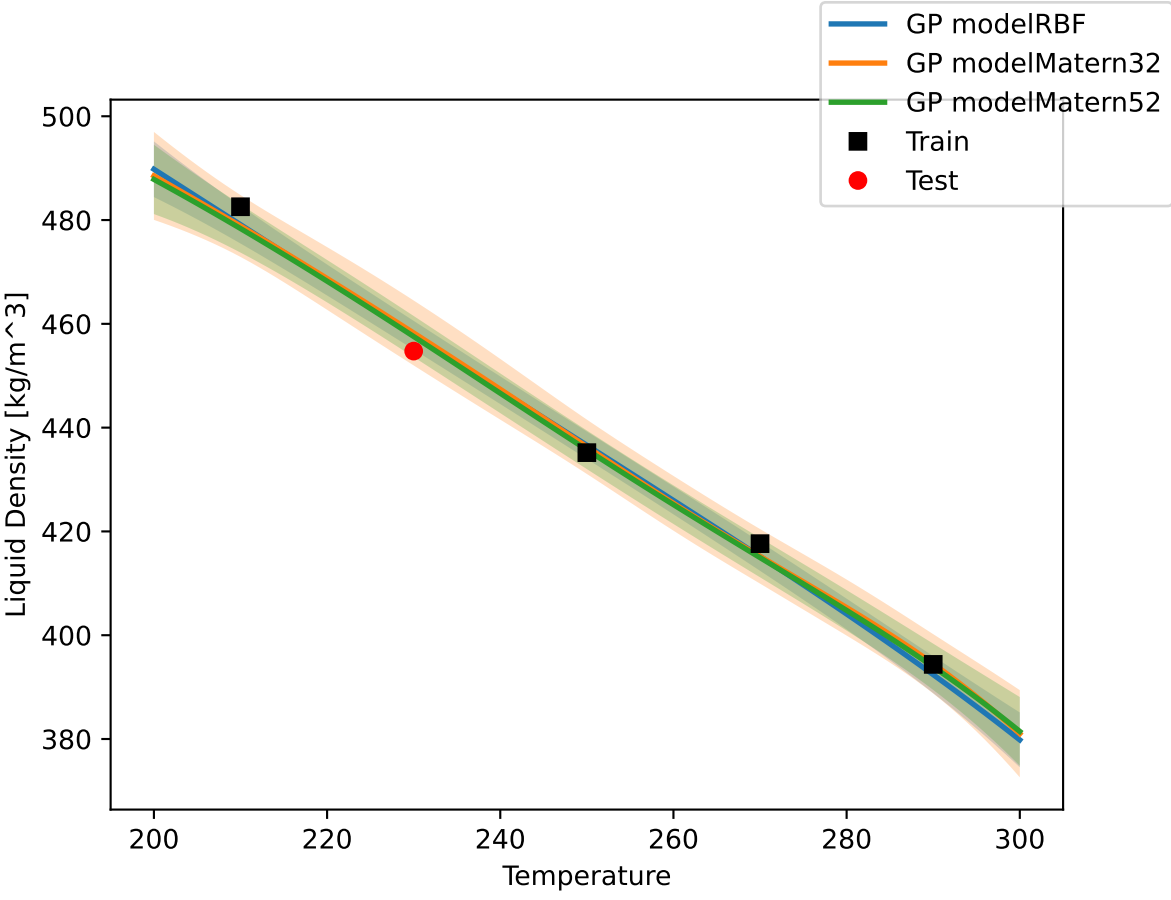
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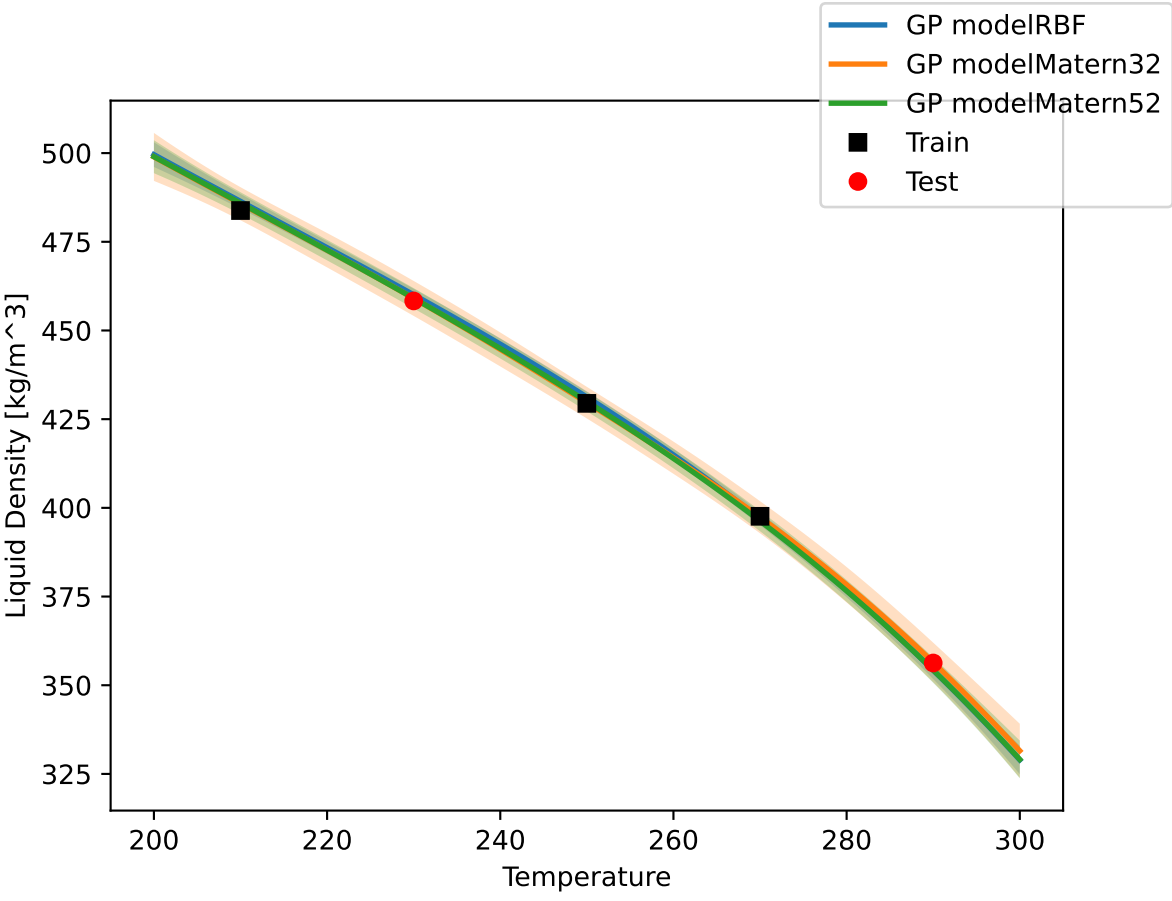
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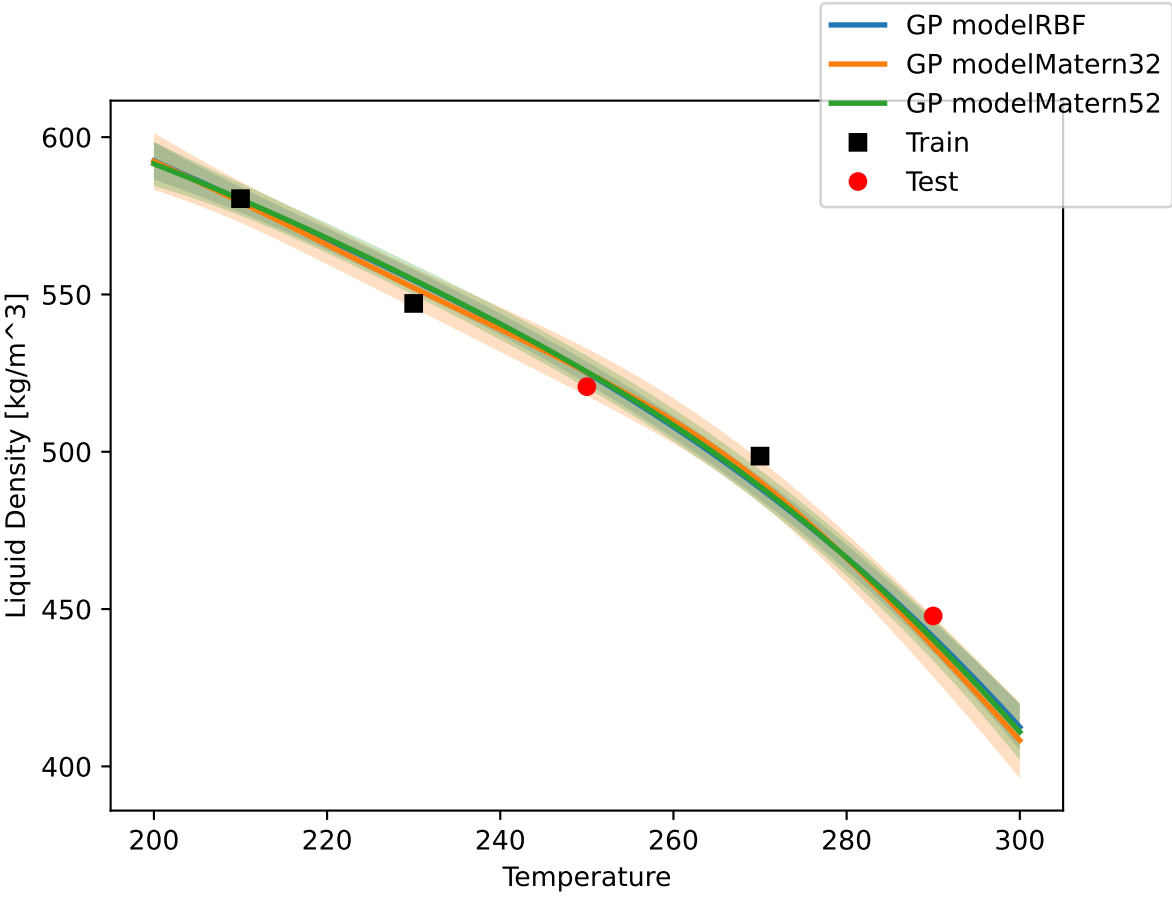
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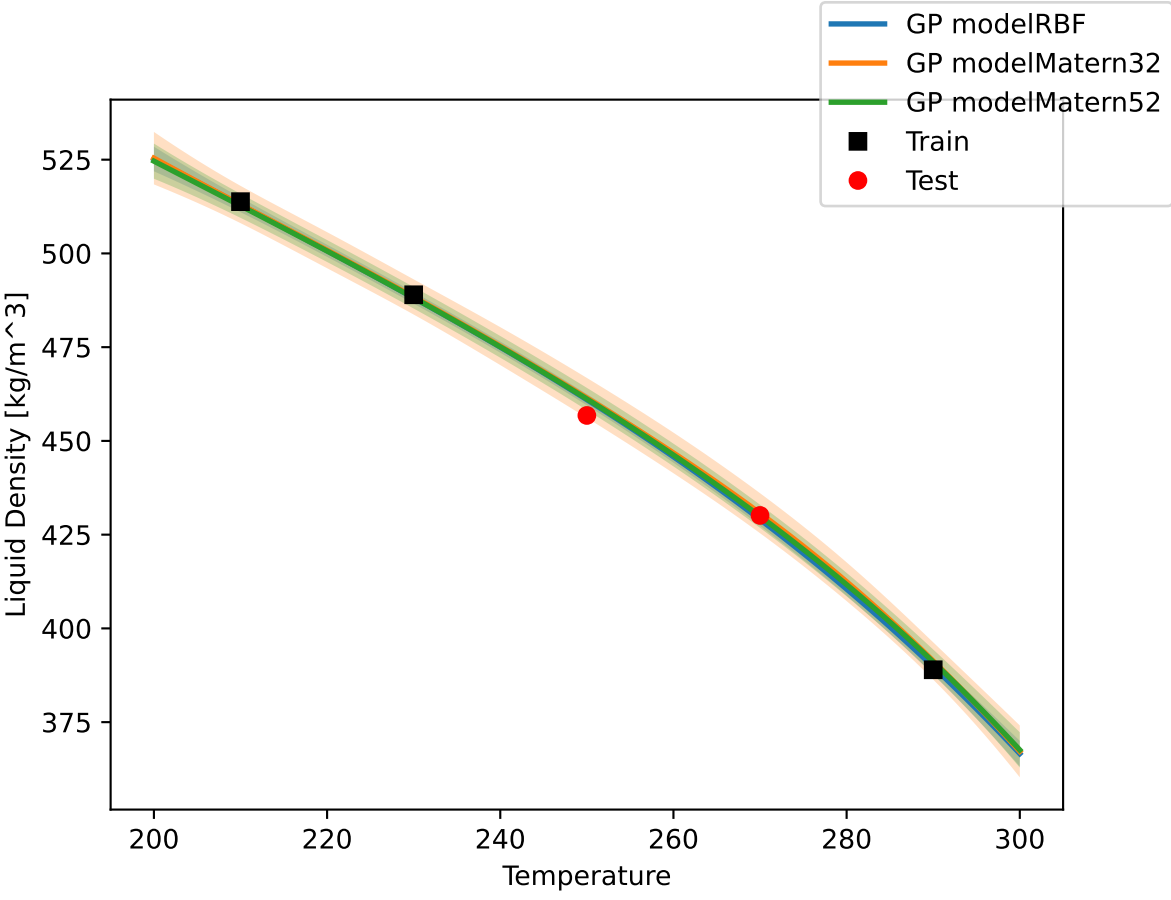
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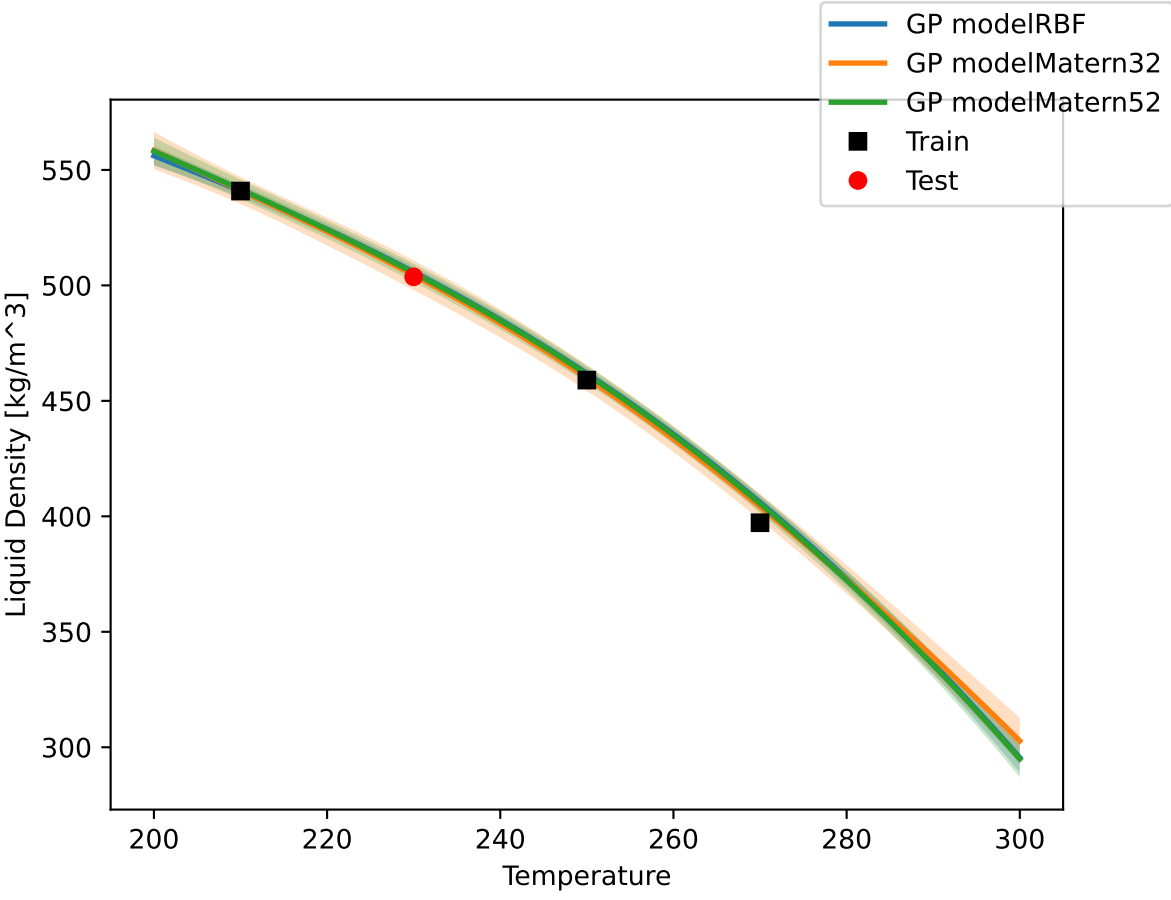
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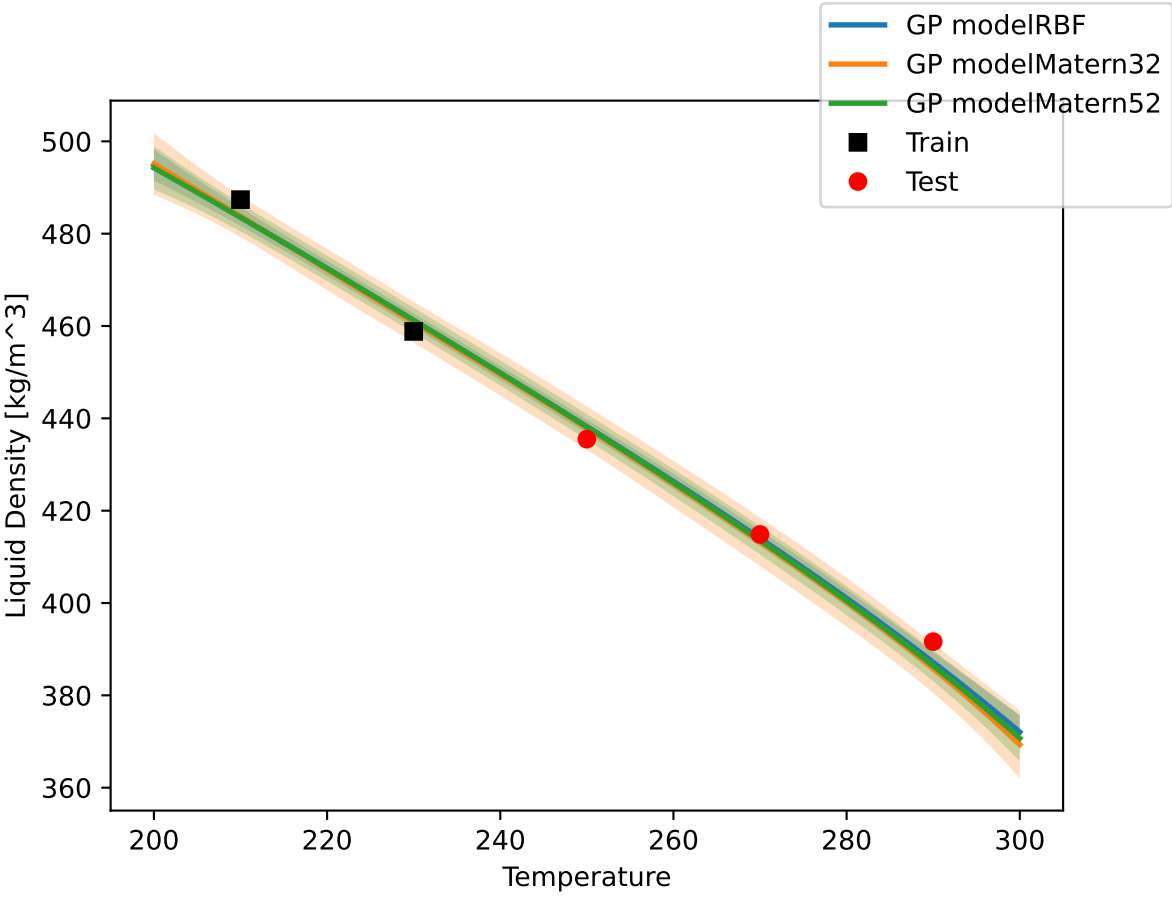
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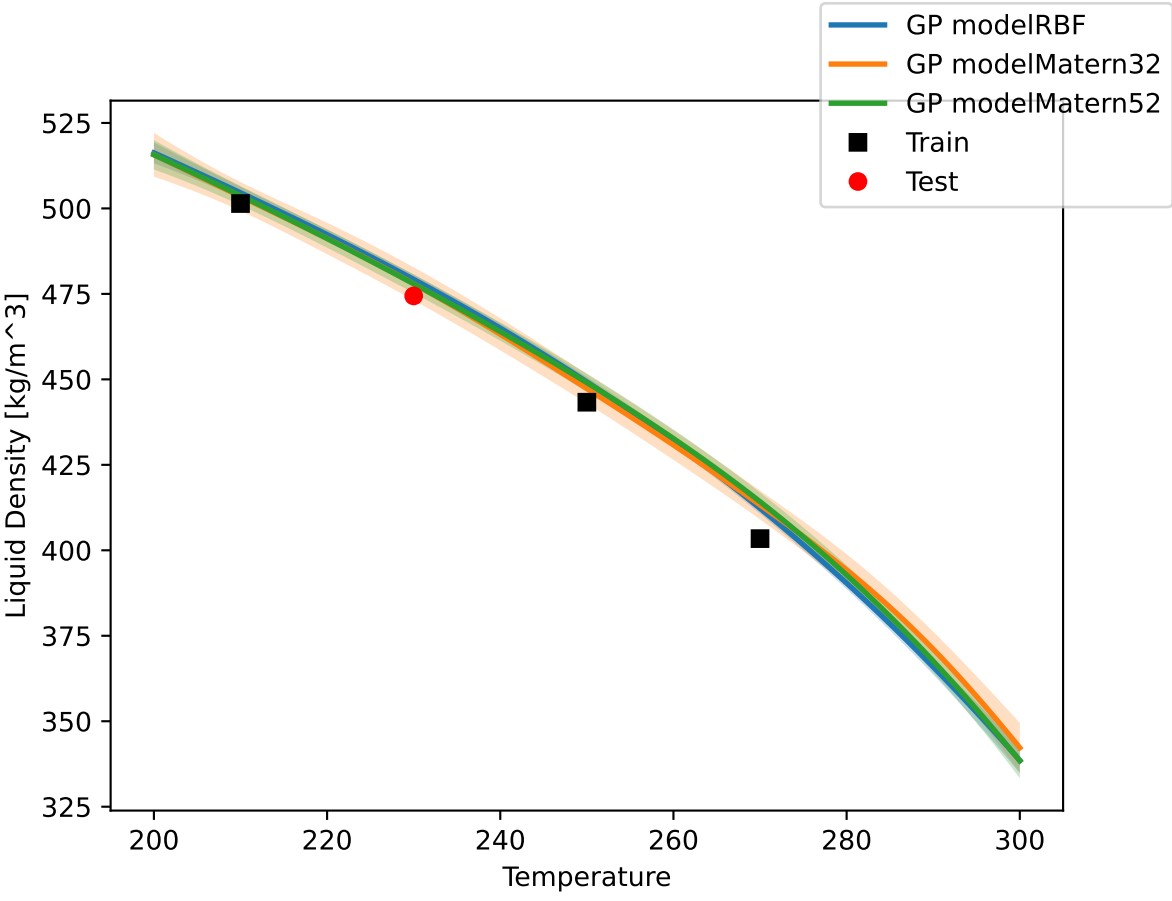
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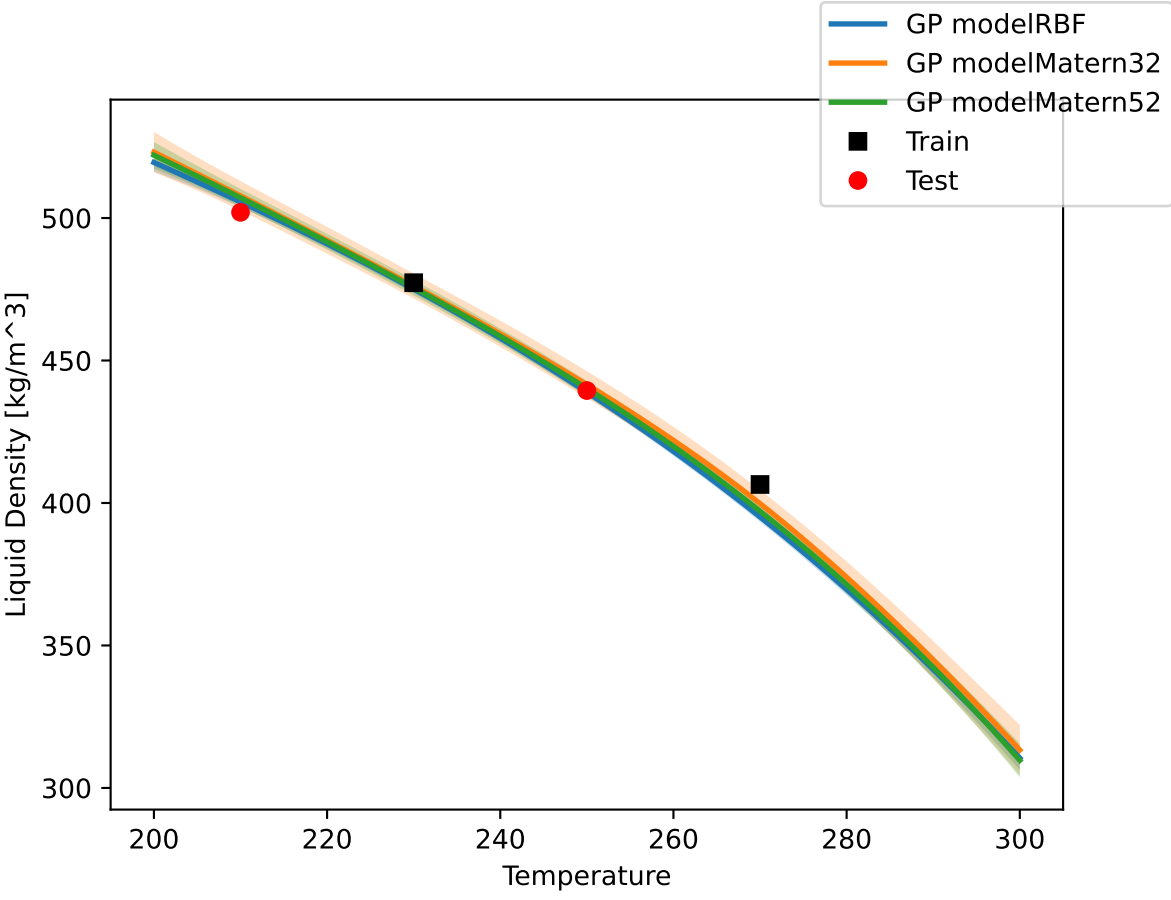
Temperature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GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
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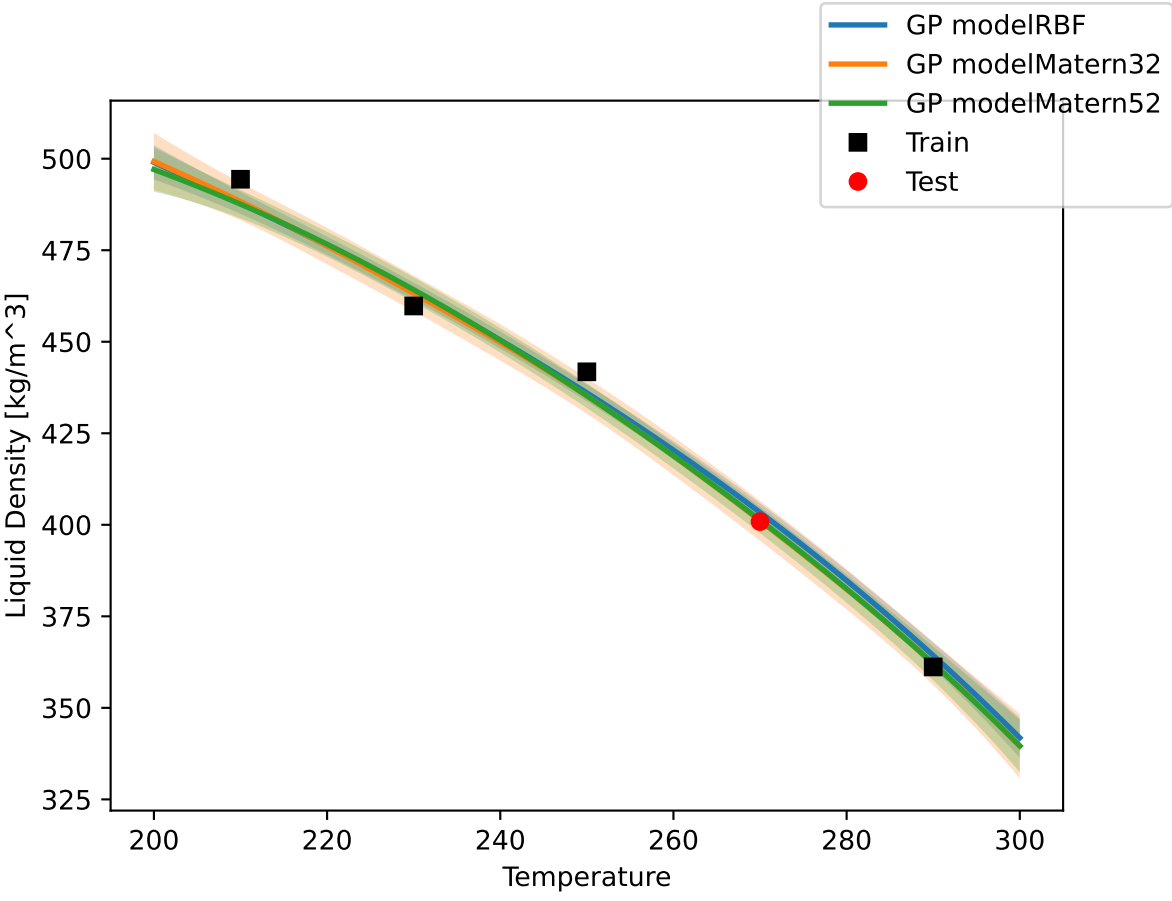
Temperature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Train
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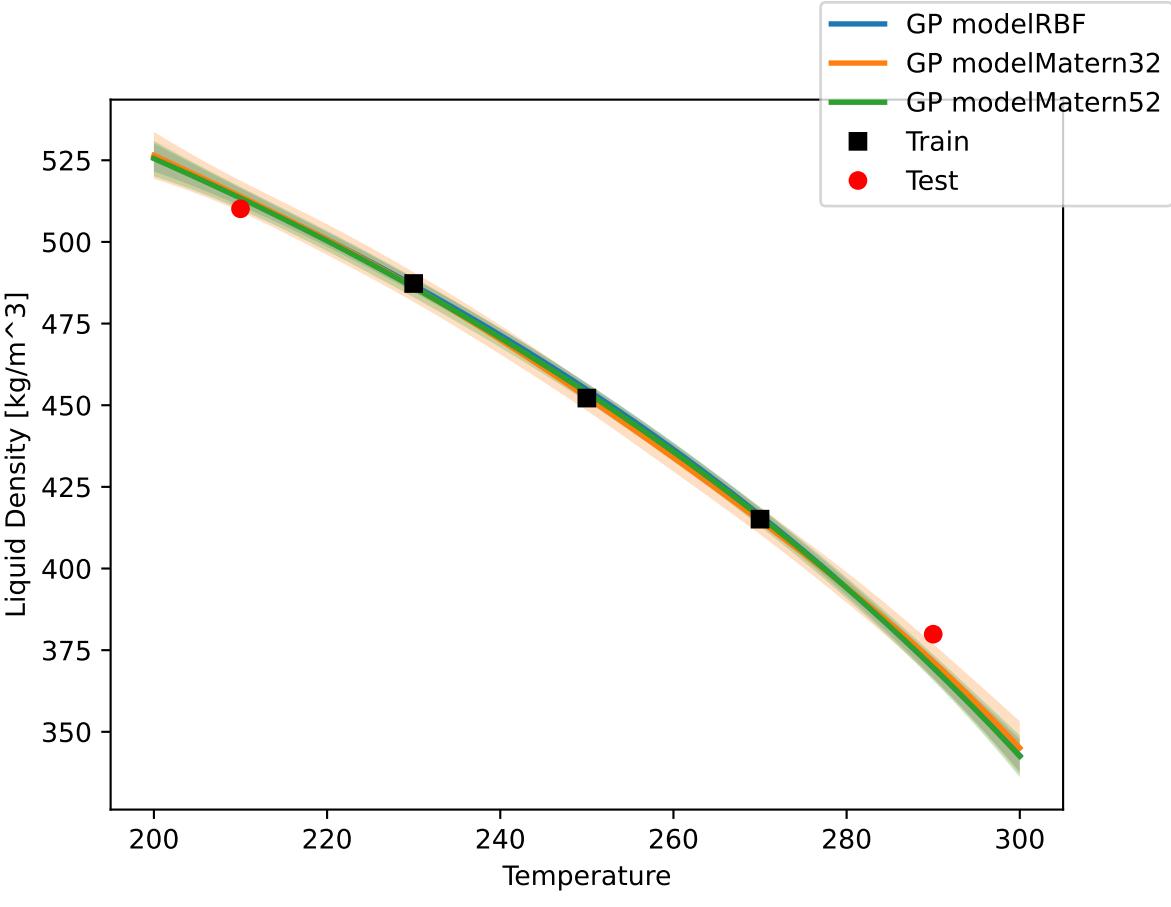
Temperature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Liquid Density [kg/m^3]
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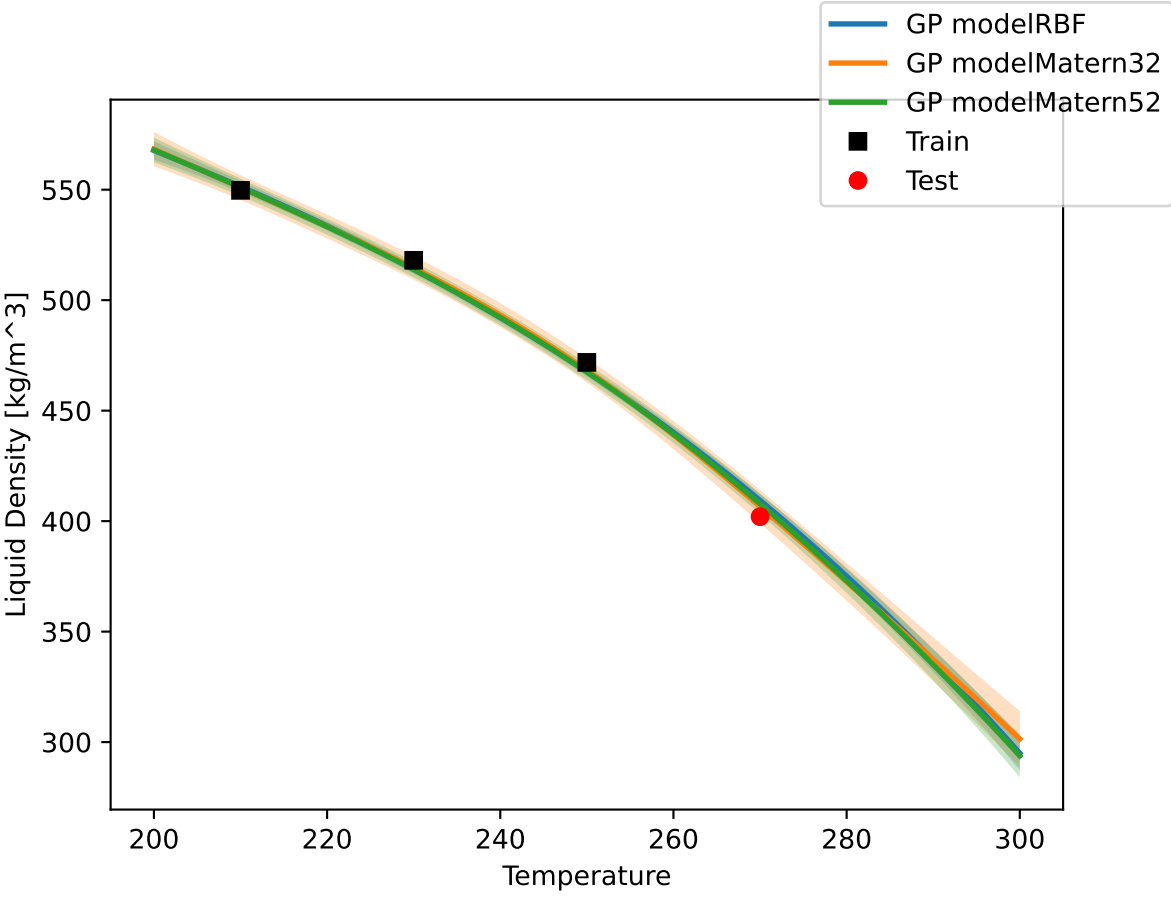
Temperature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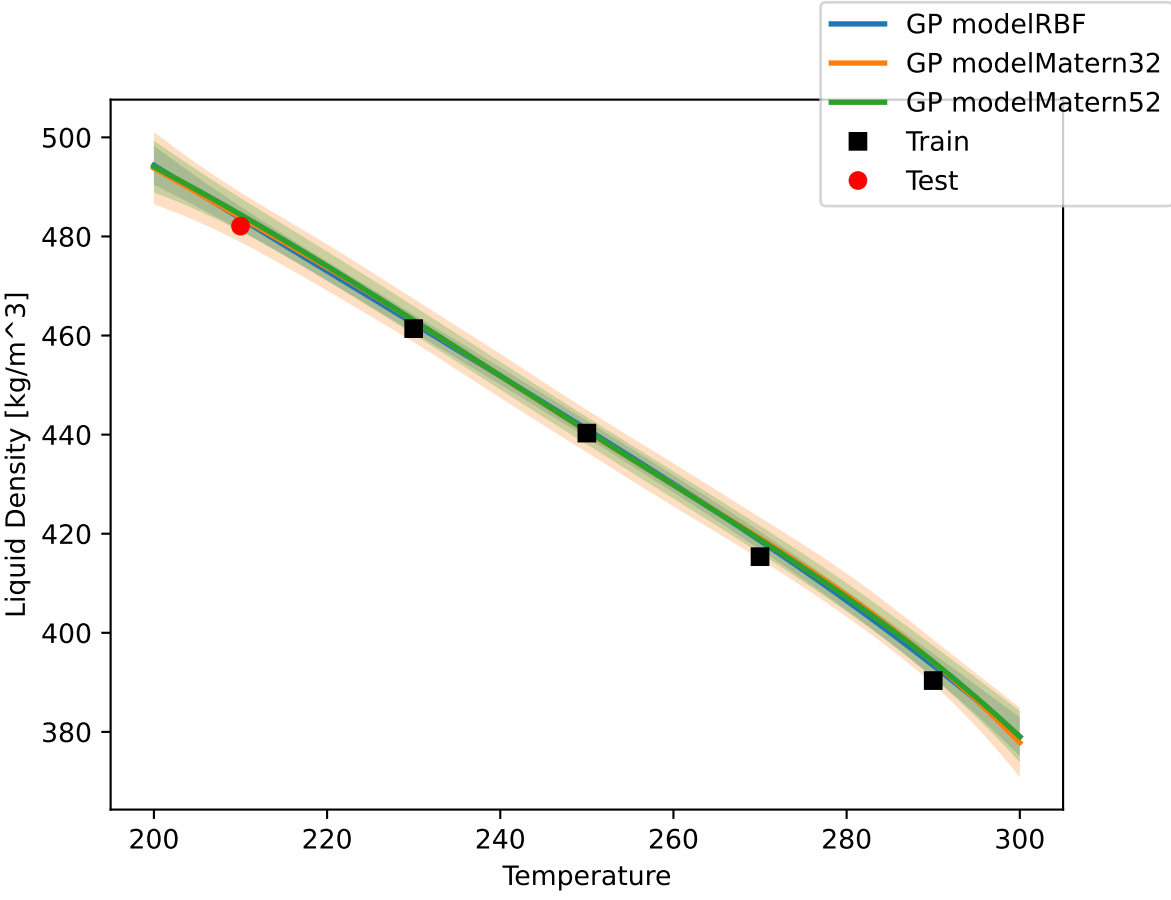
Temperature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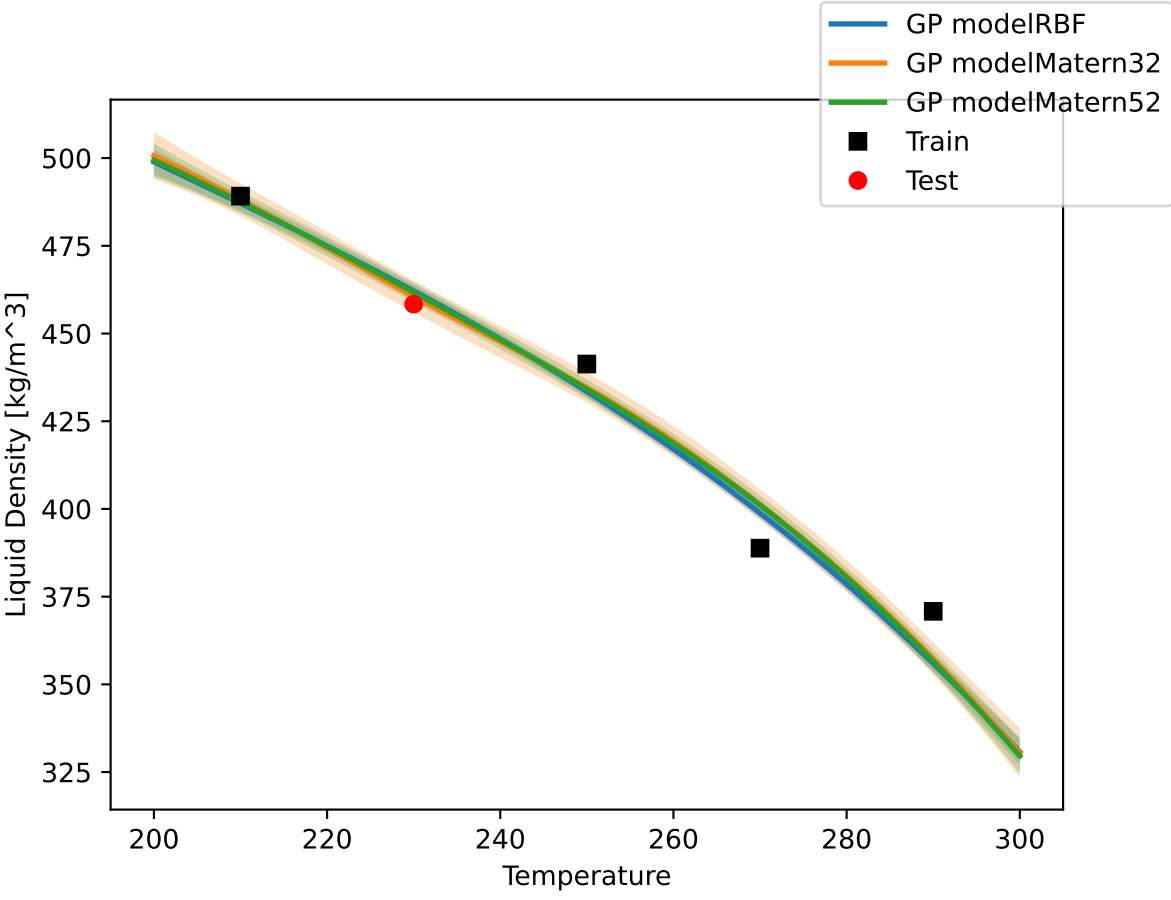
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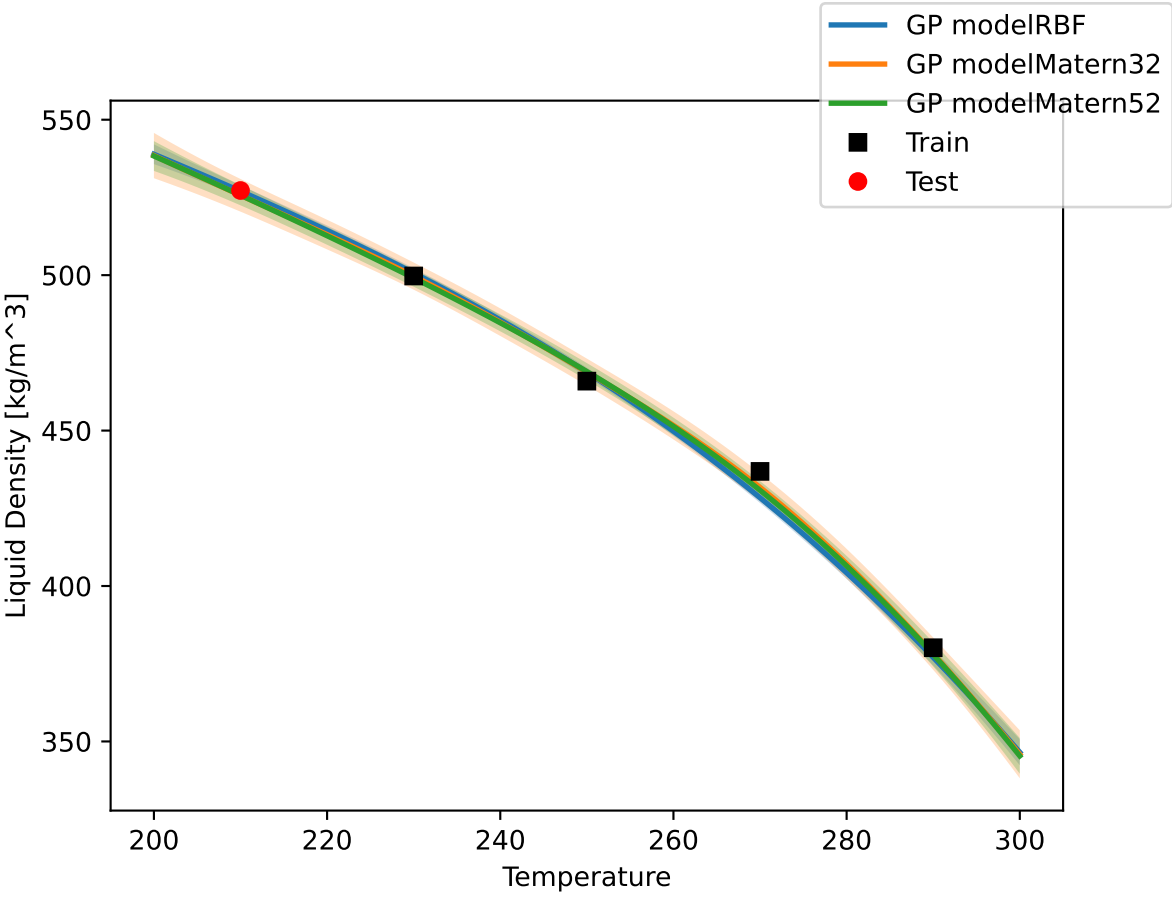
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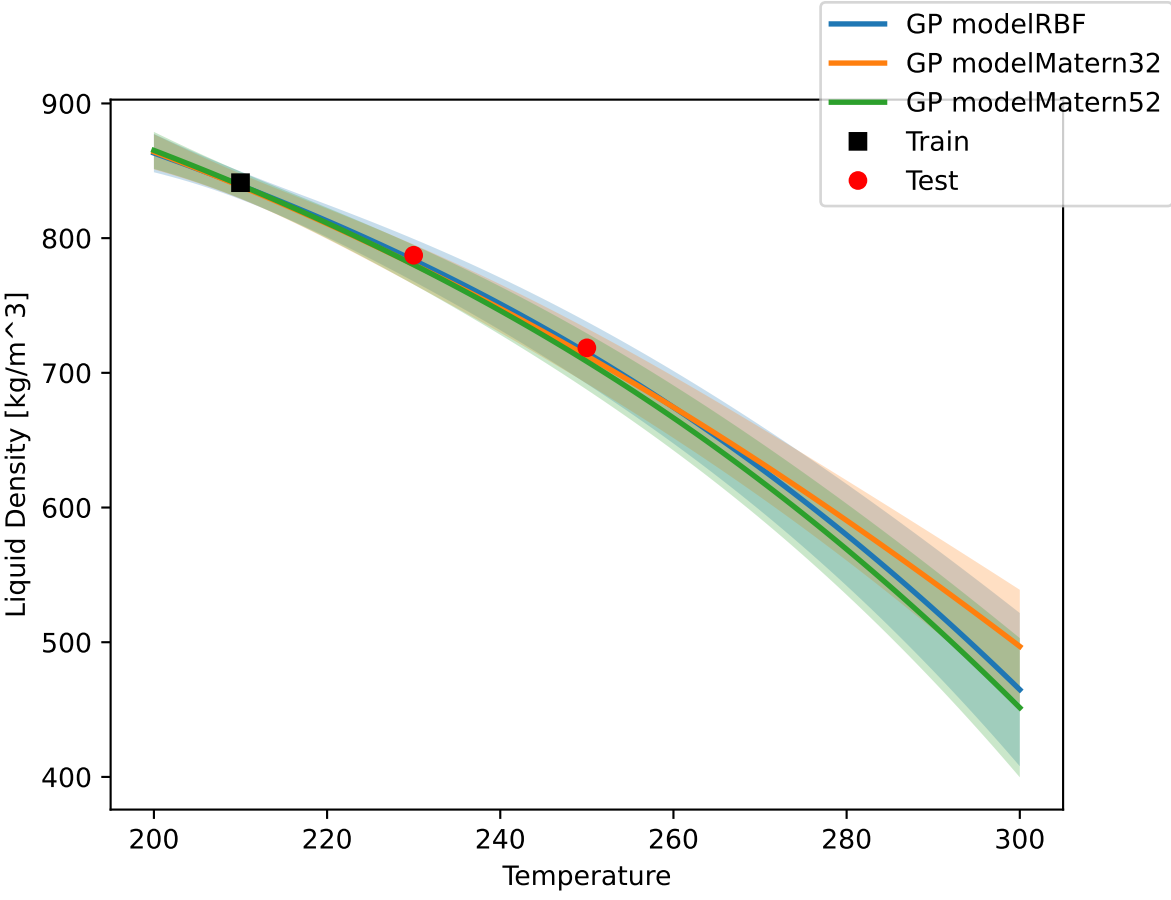
Temperature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Test
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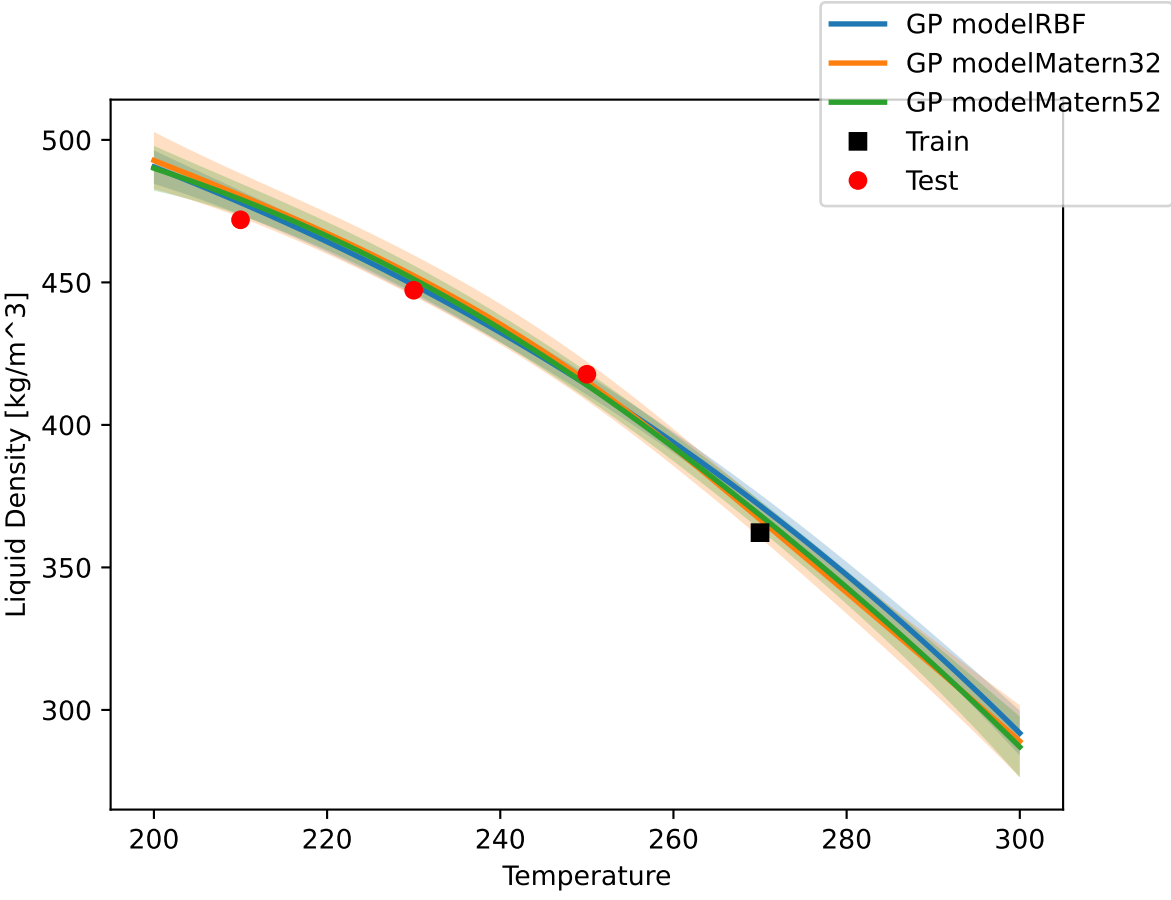
Temperature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Liquid Density [kg/m^3]
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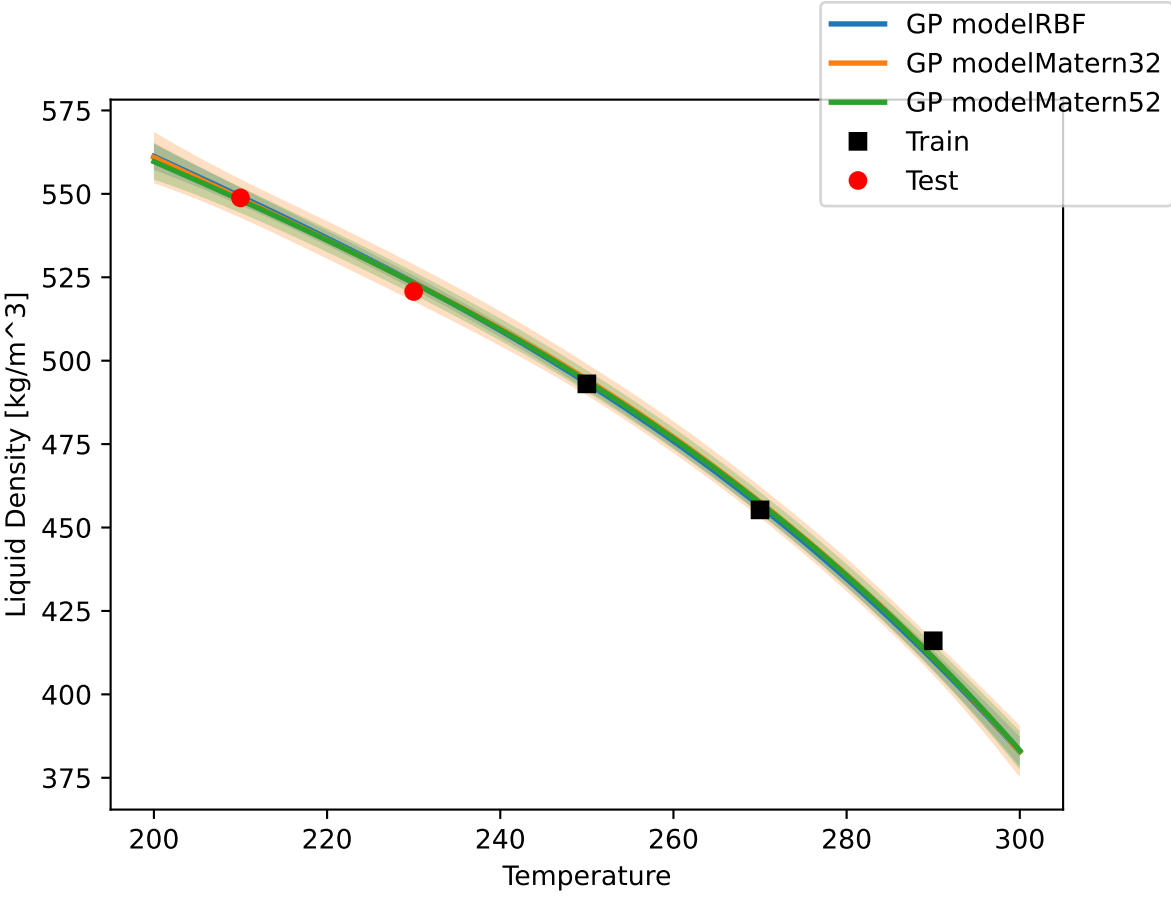
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Liquid Density [kg/m^3]
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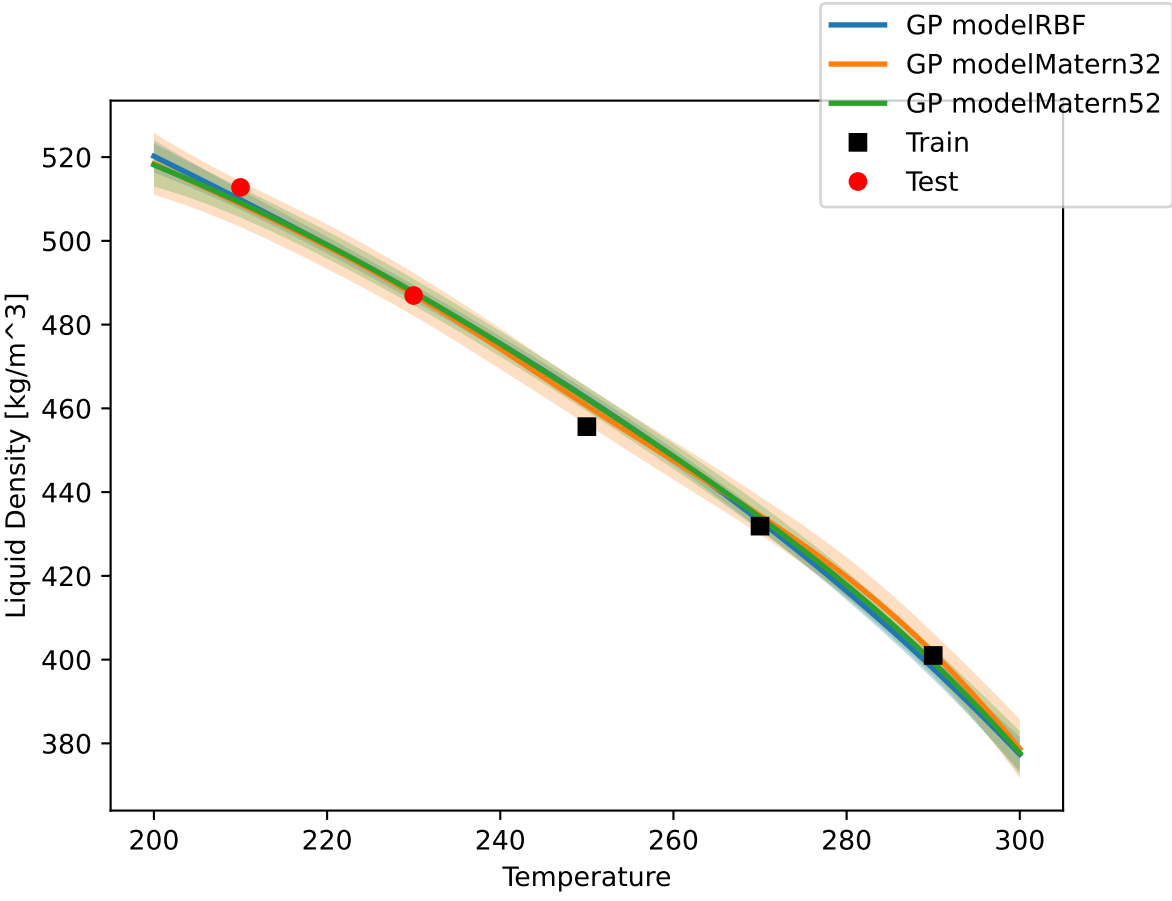
Temperature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Train
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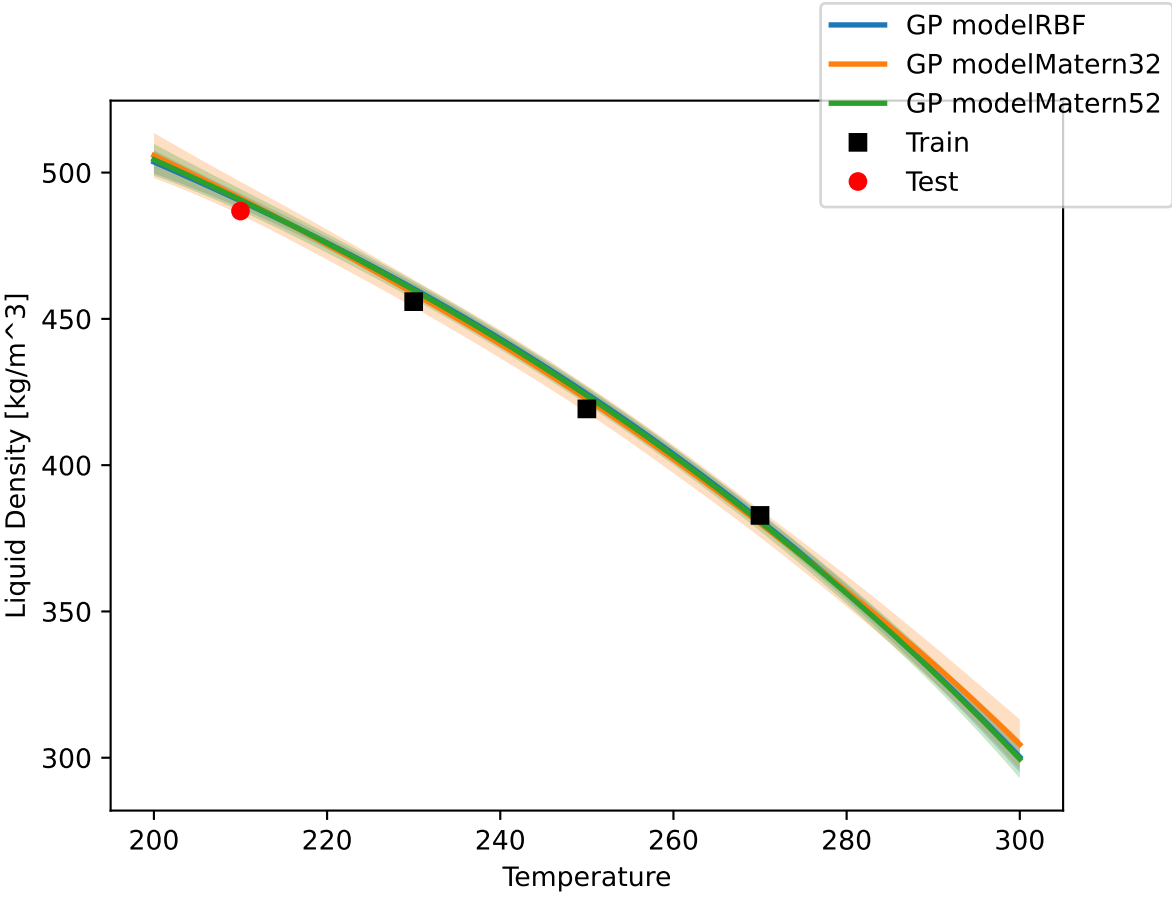
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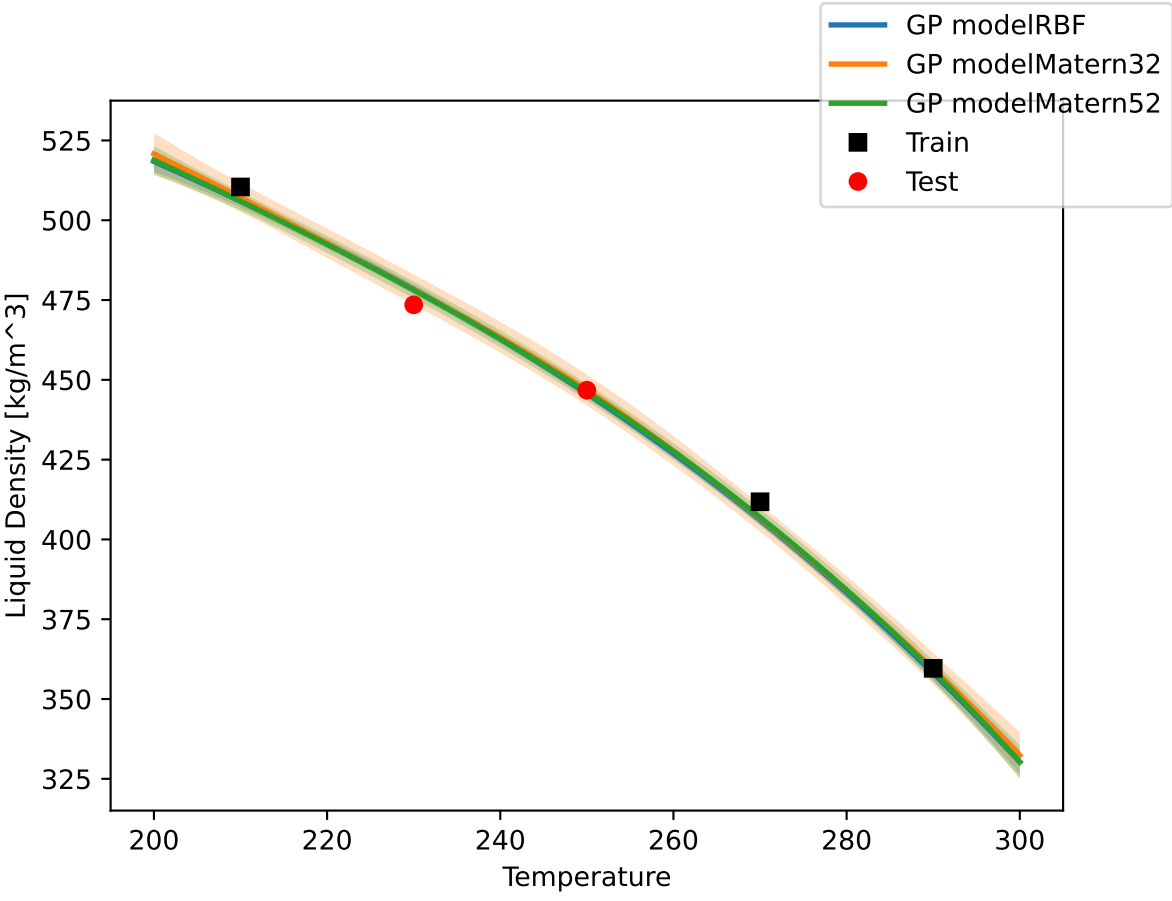
Temperature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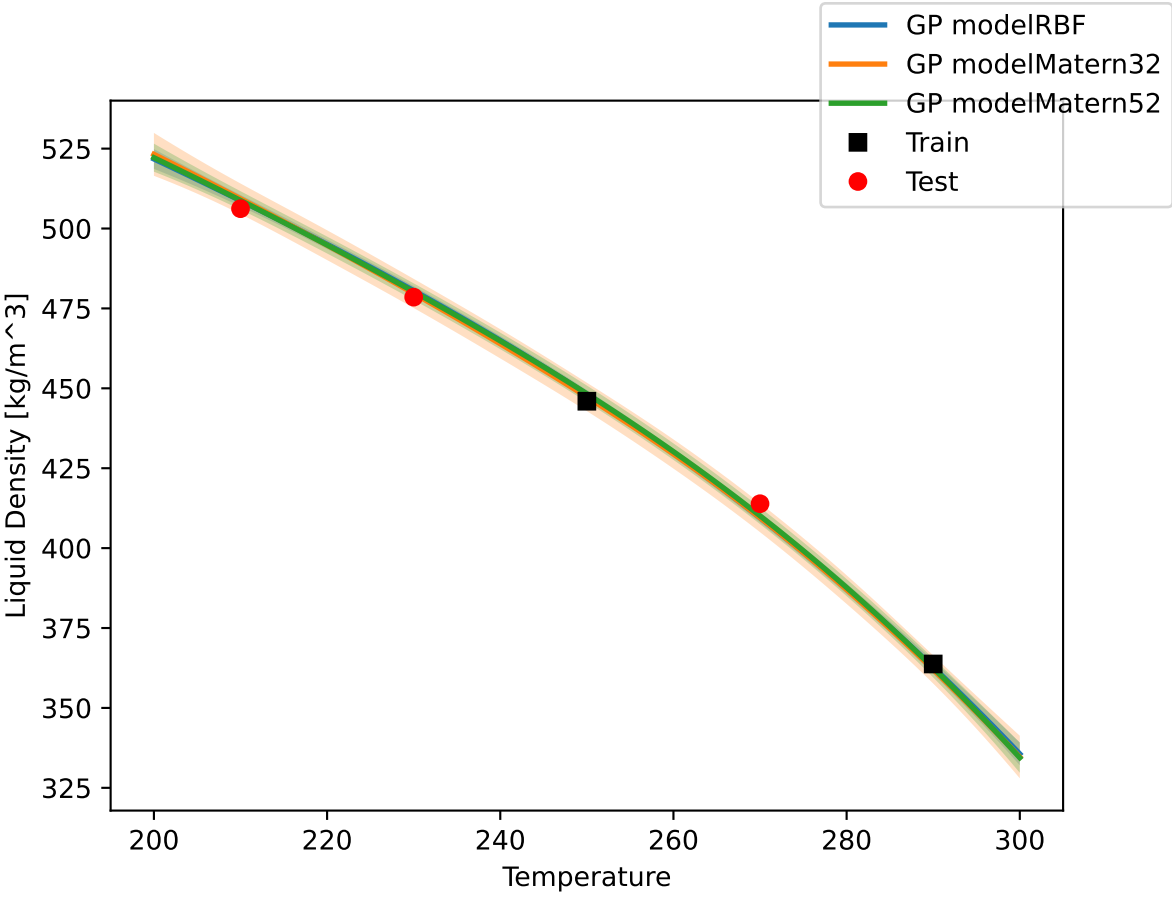
Temperature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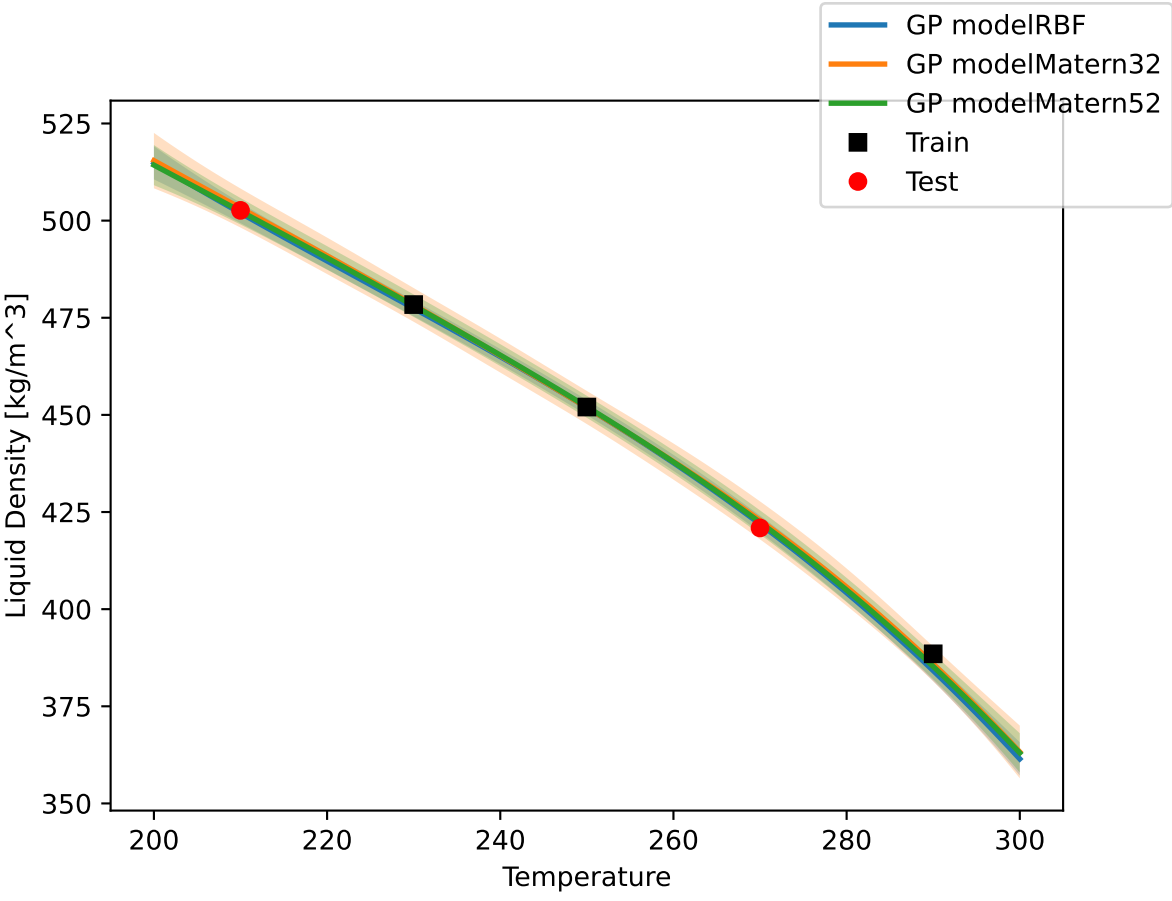
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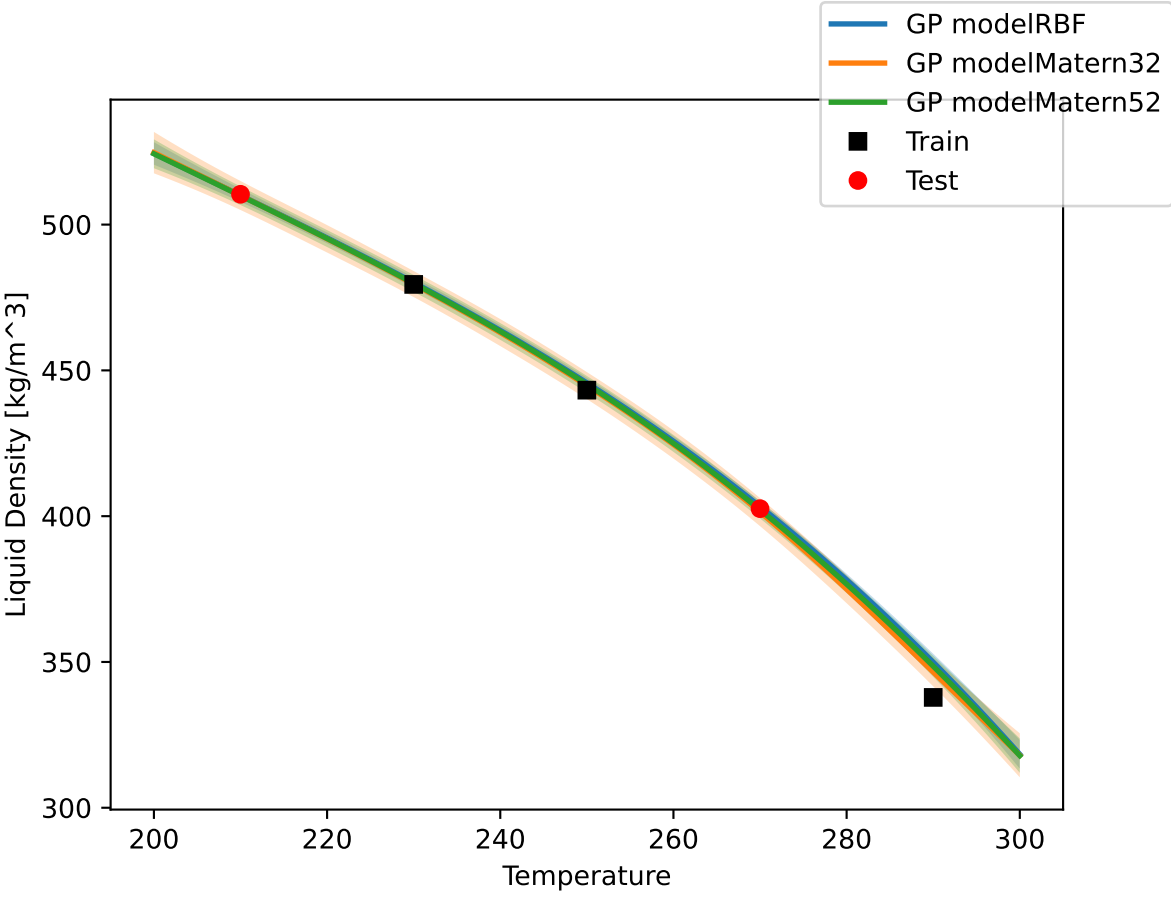
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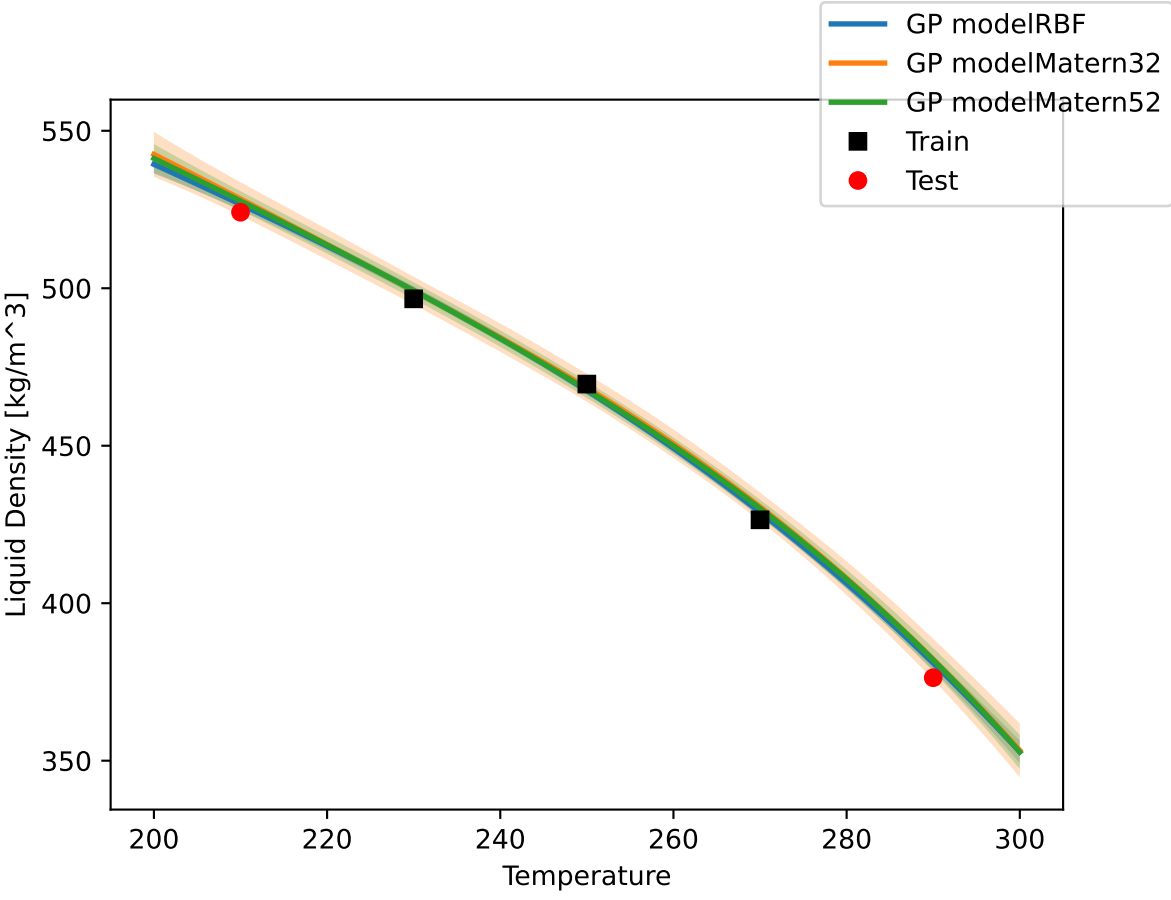
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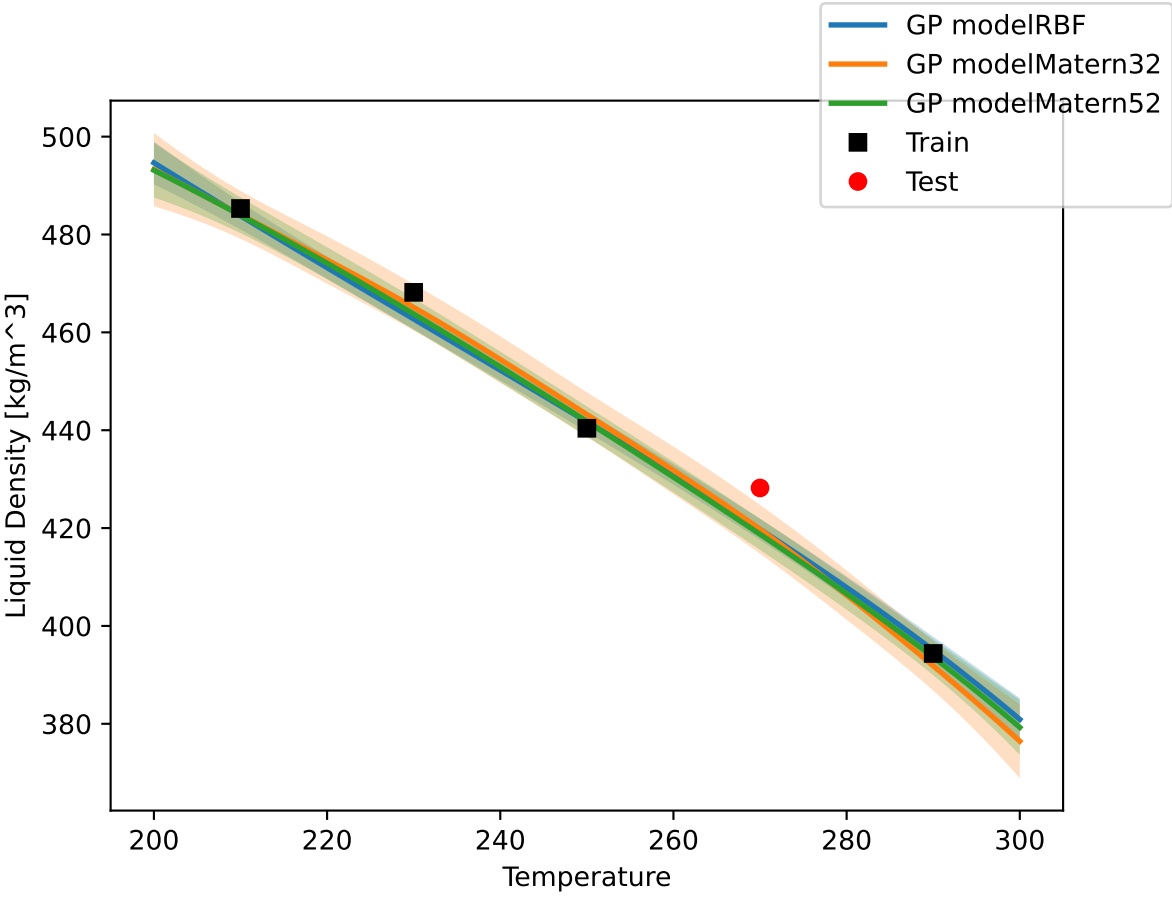
Temperature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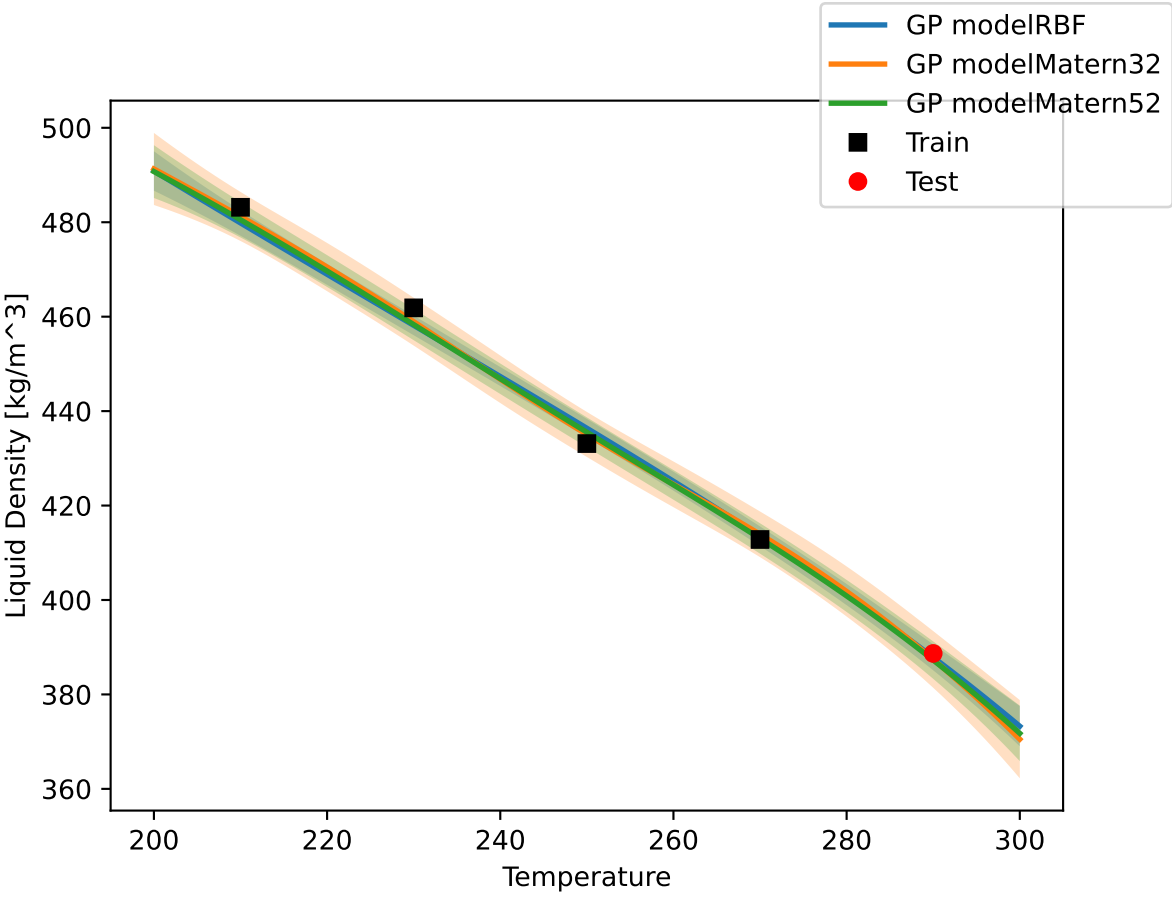
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Temperature
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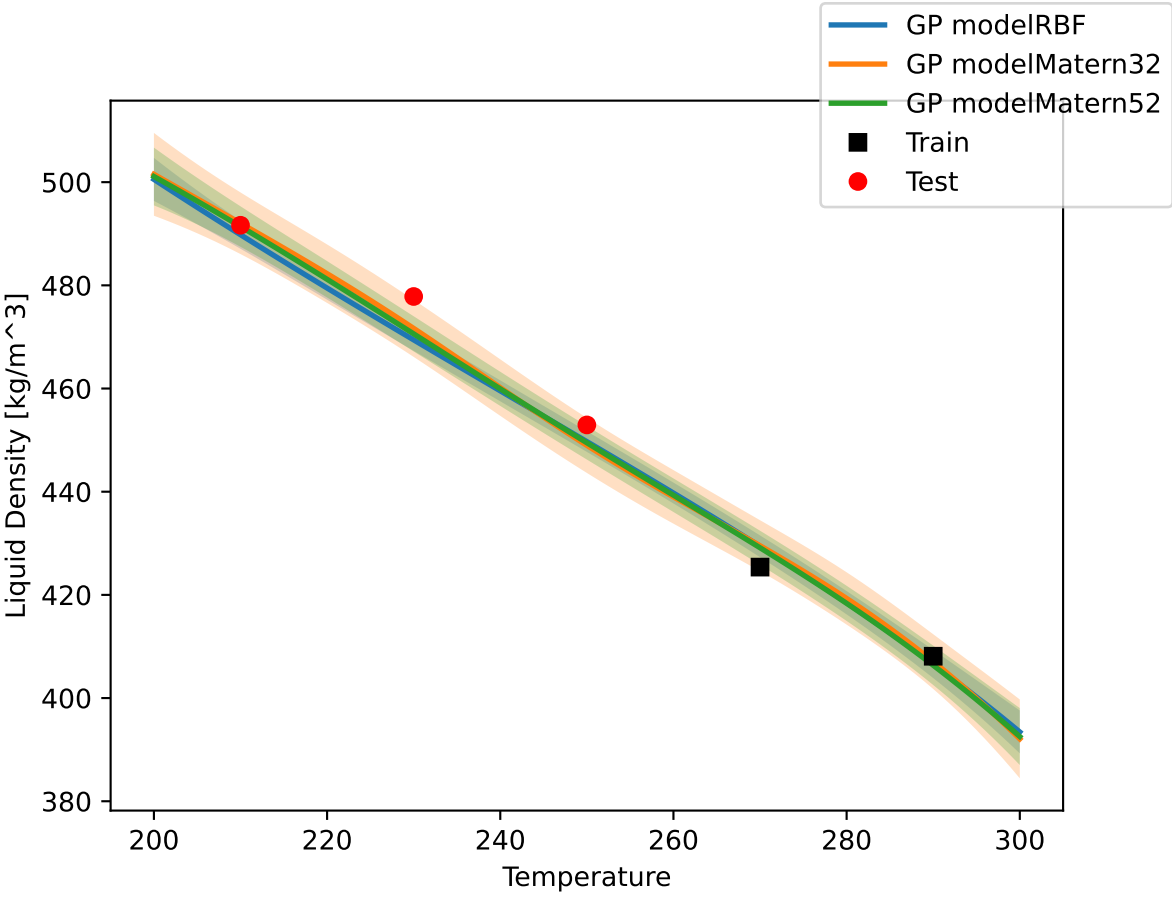
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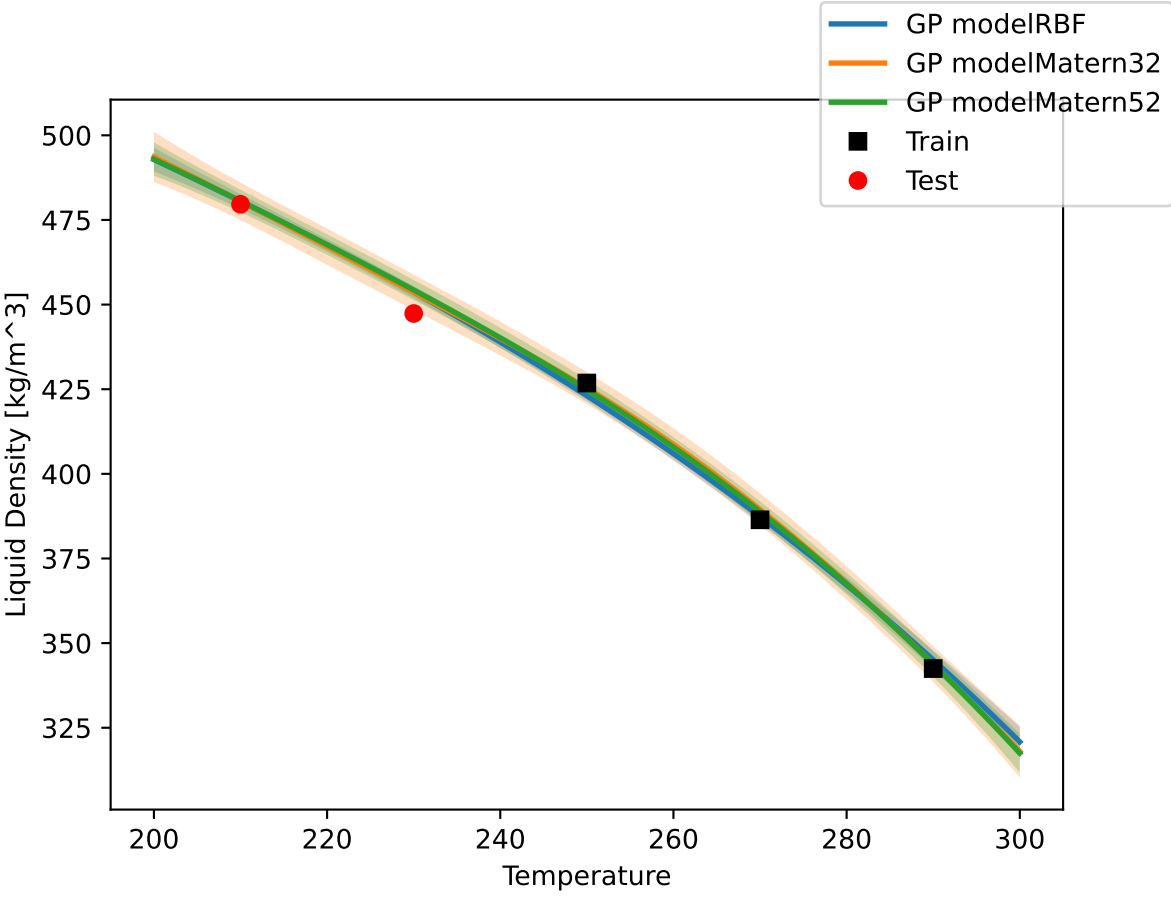
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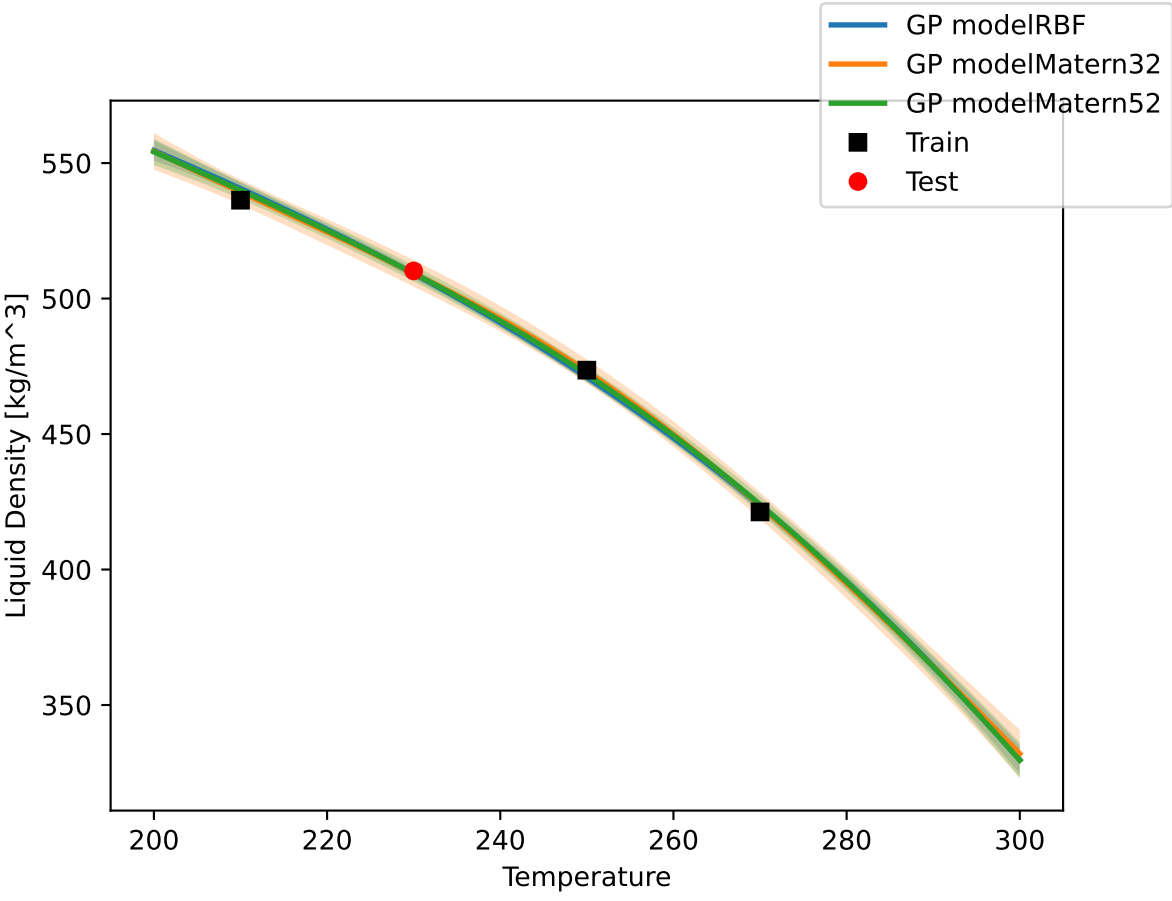
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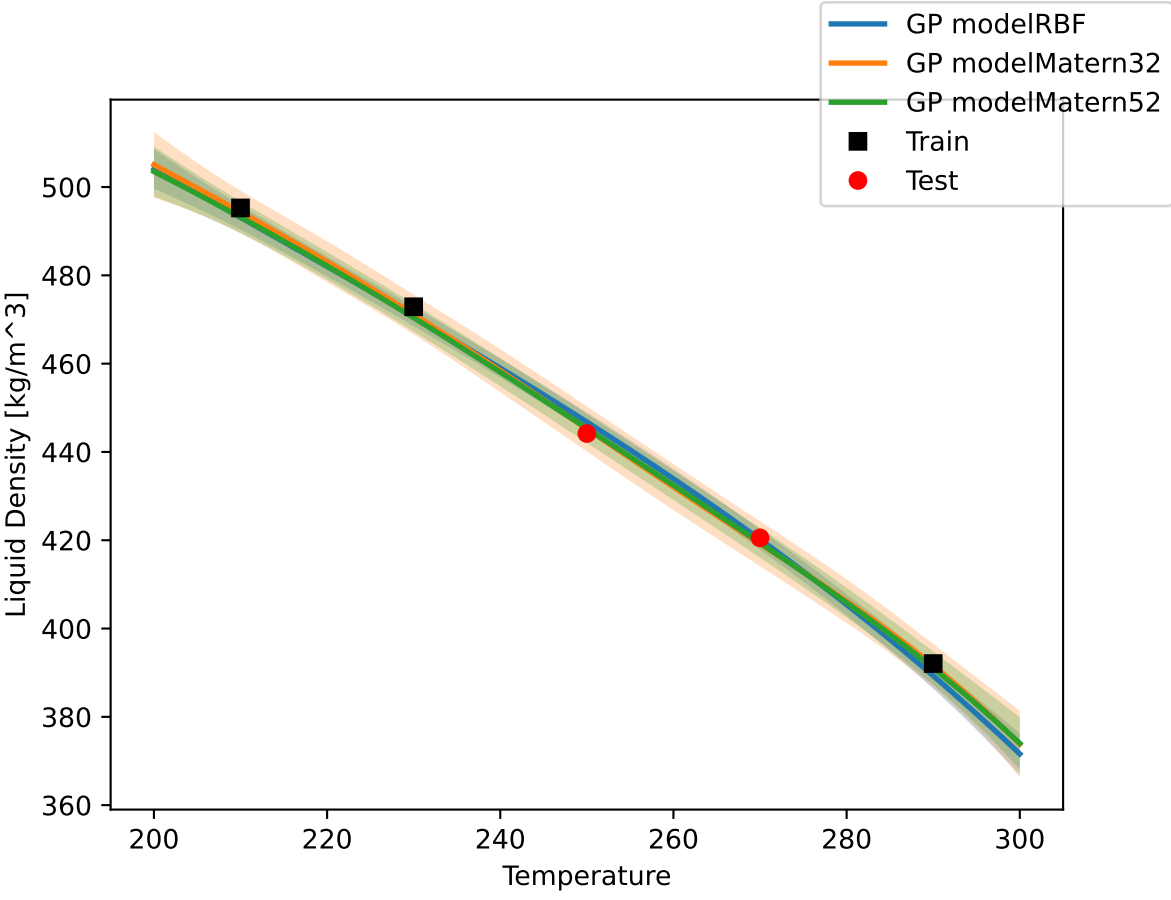
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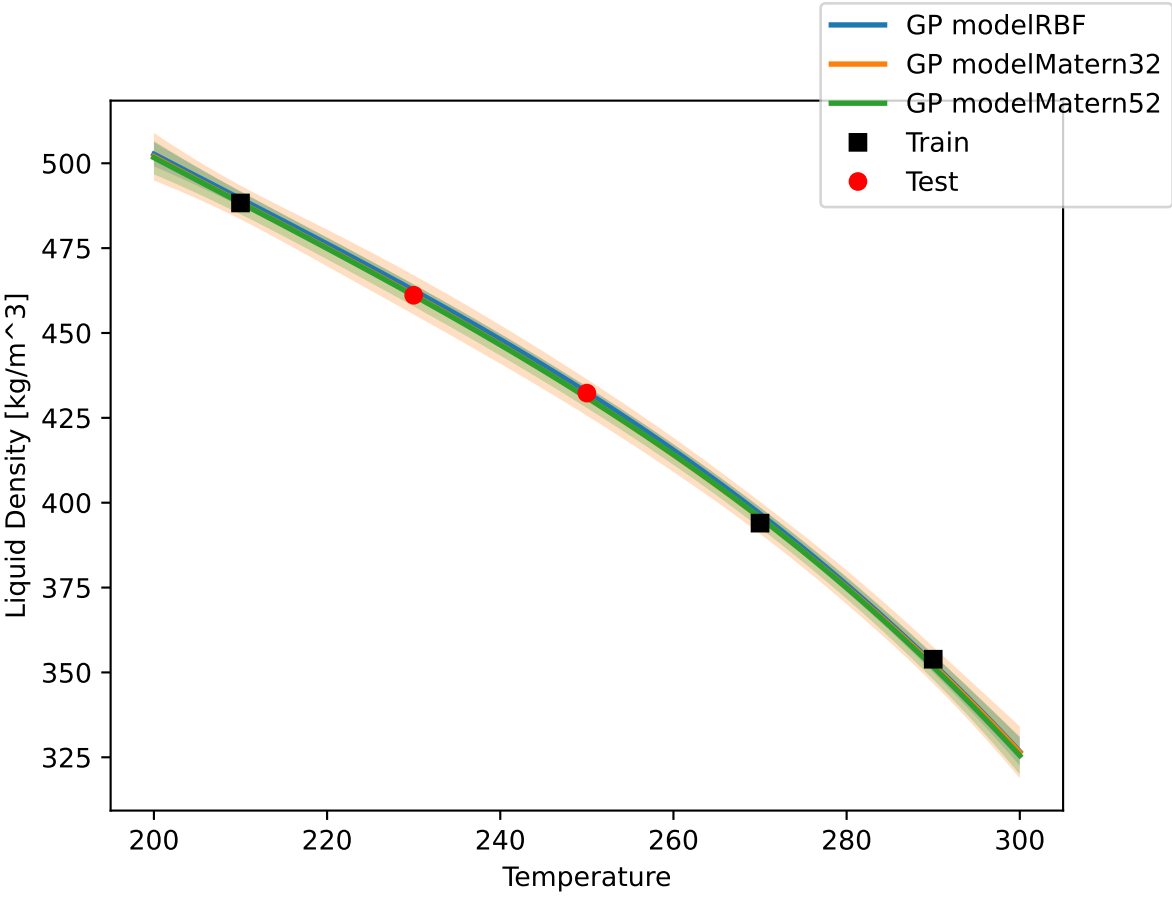
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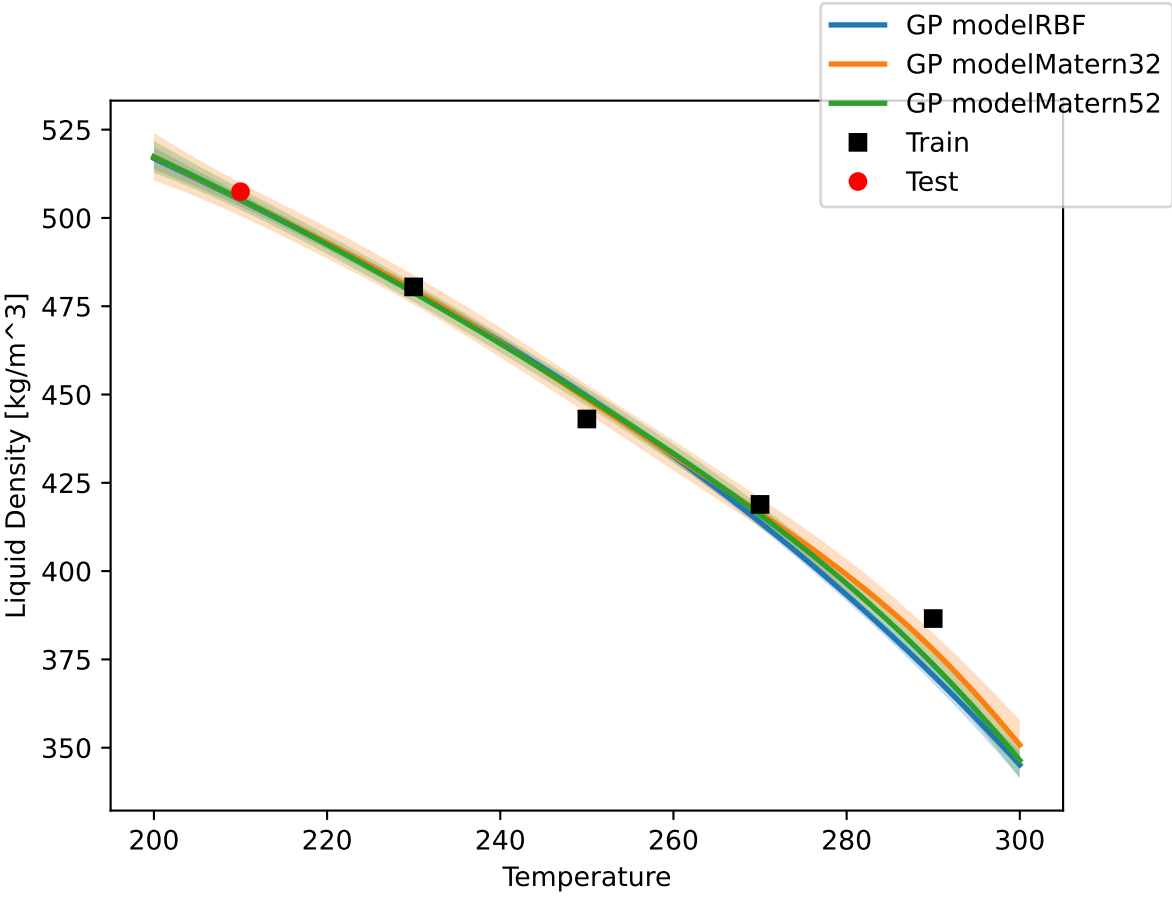
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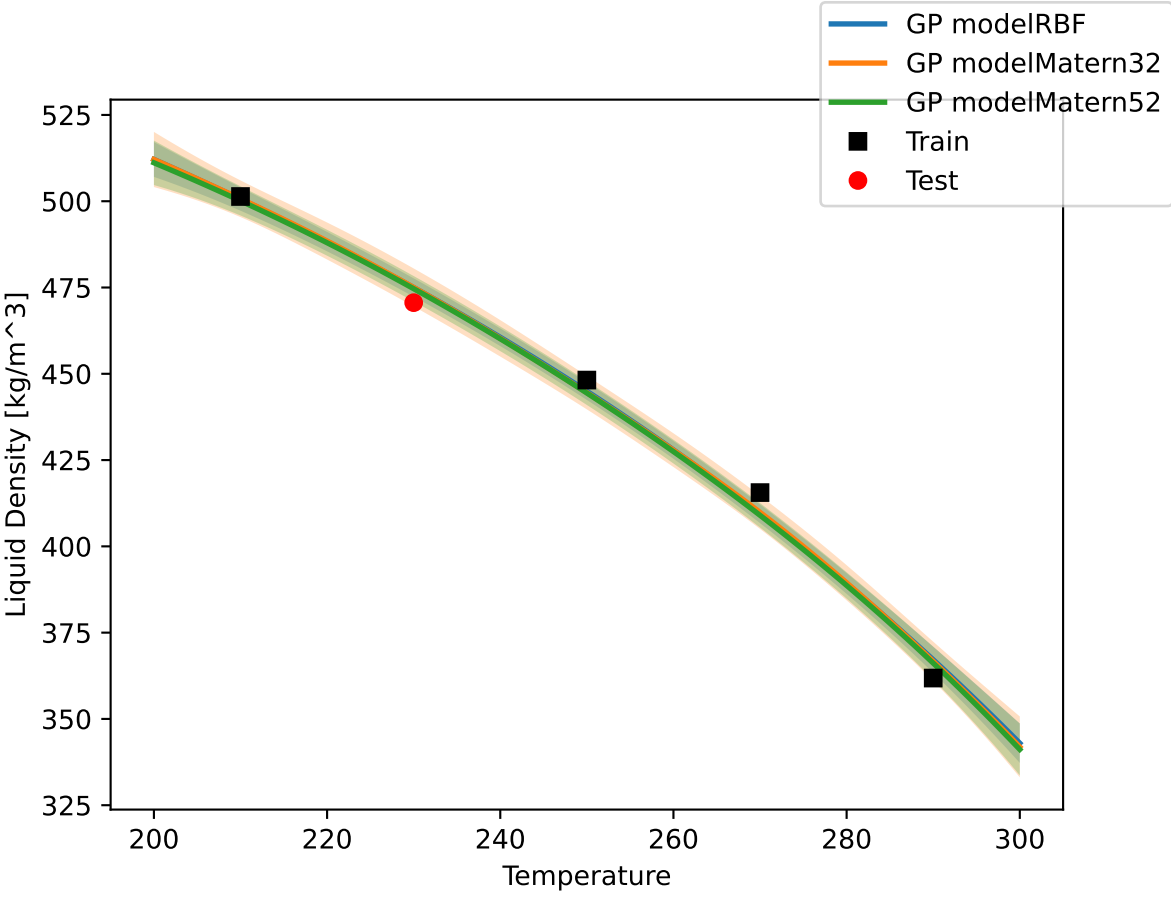
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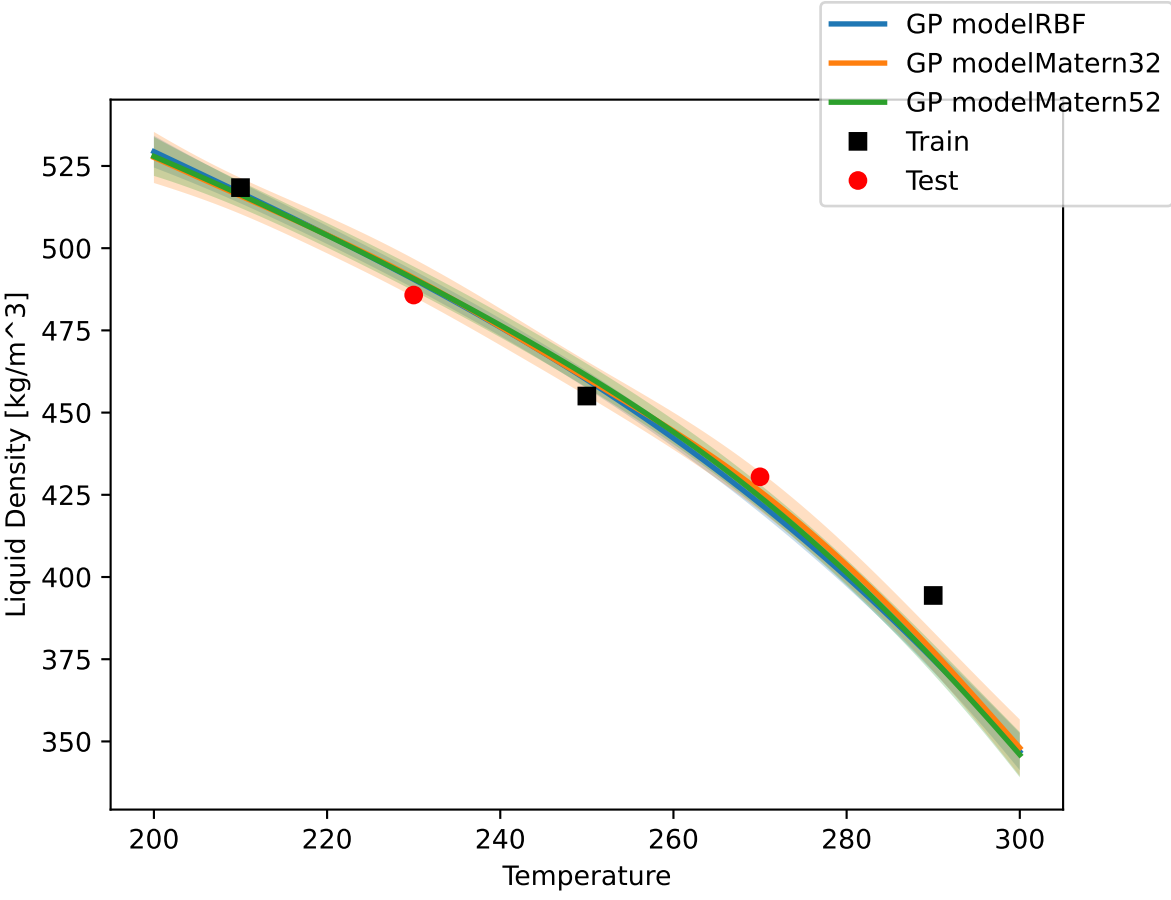
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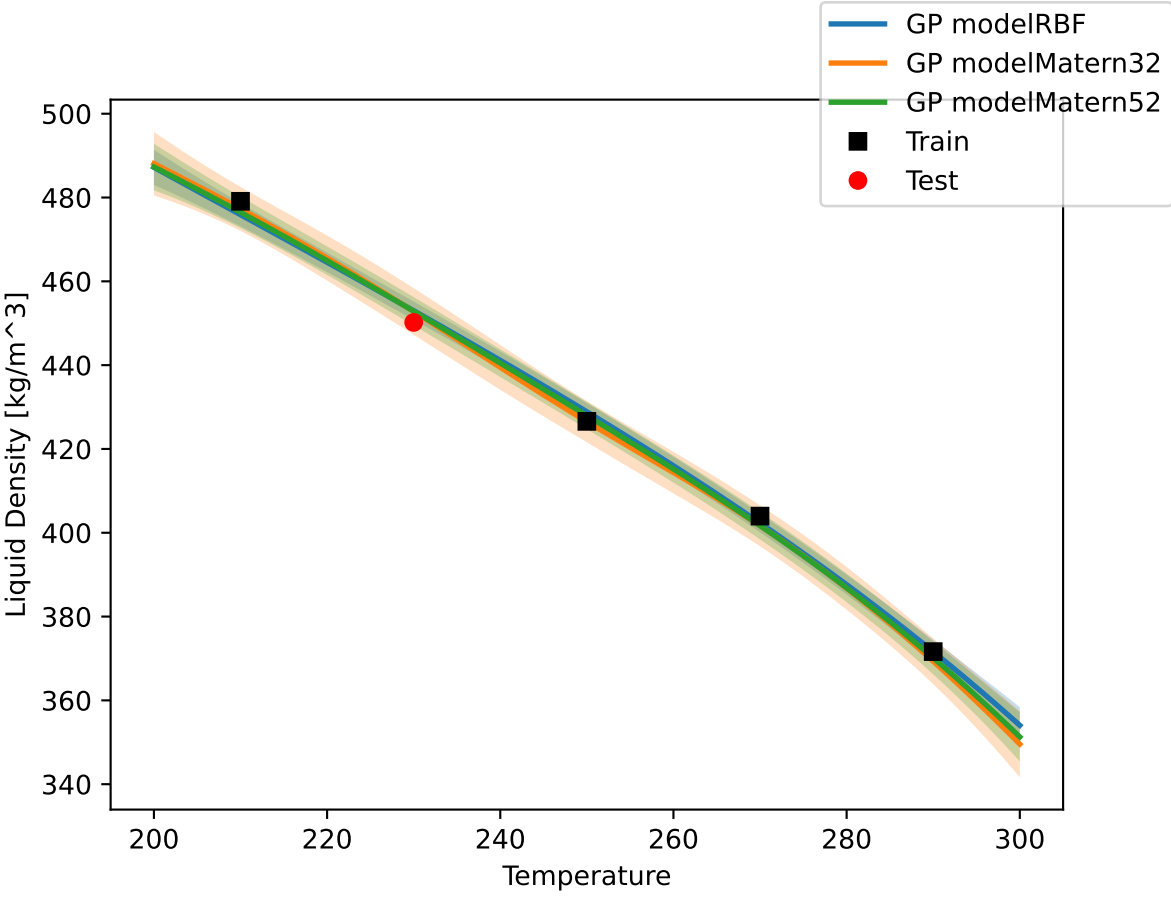
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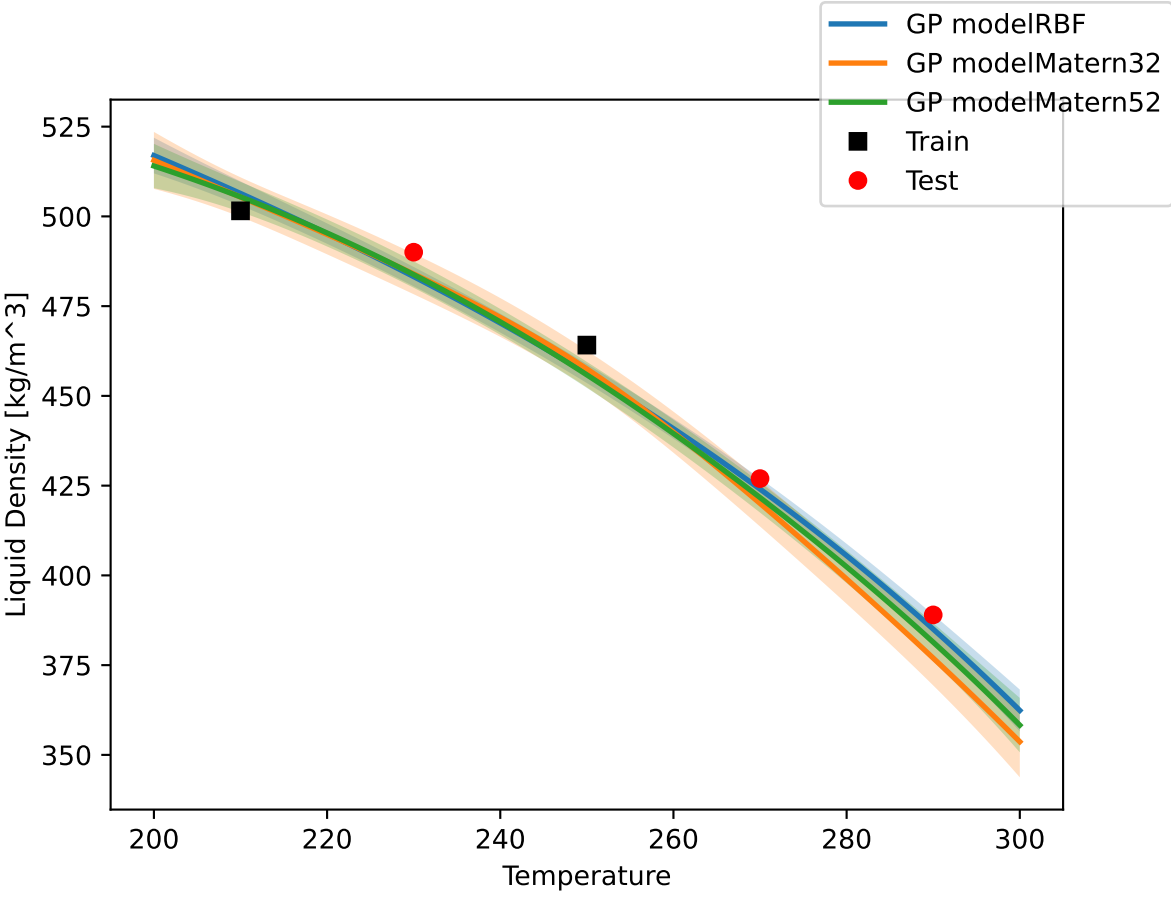
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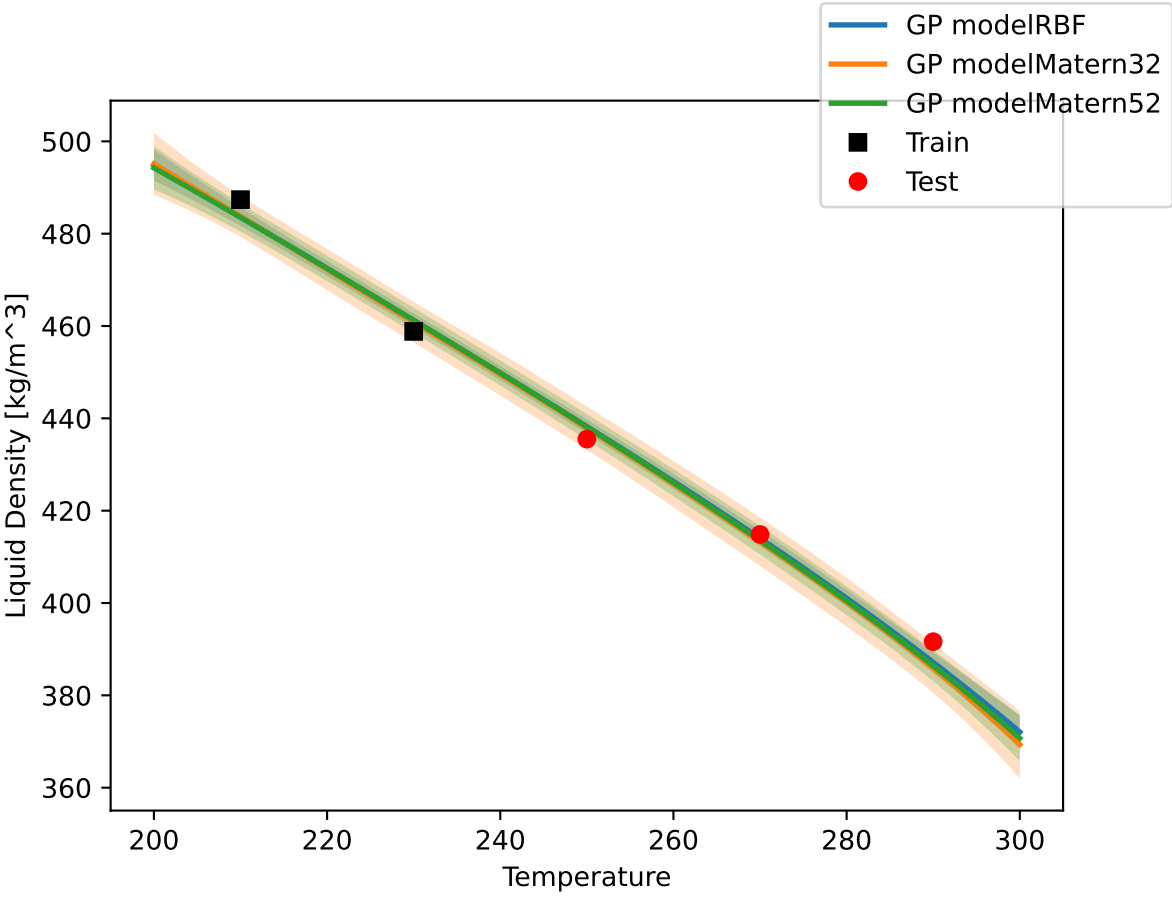
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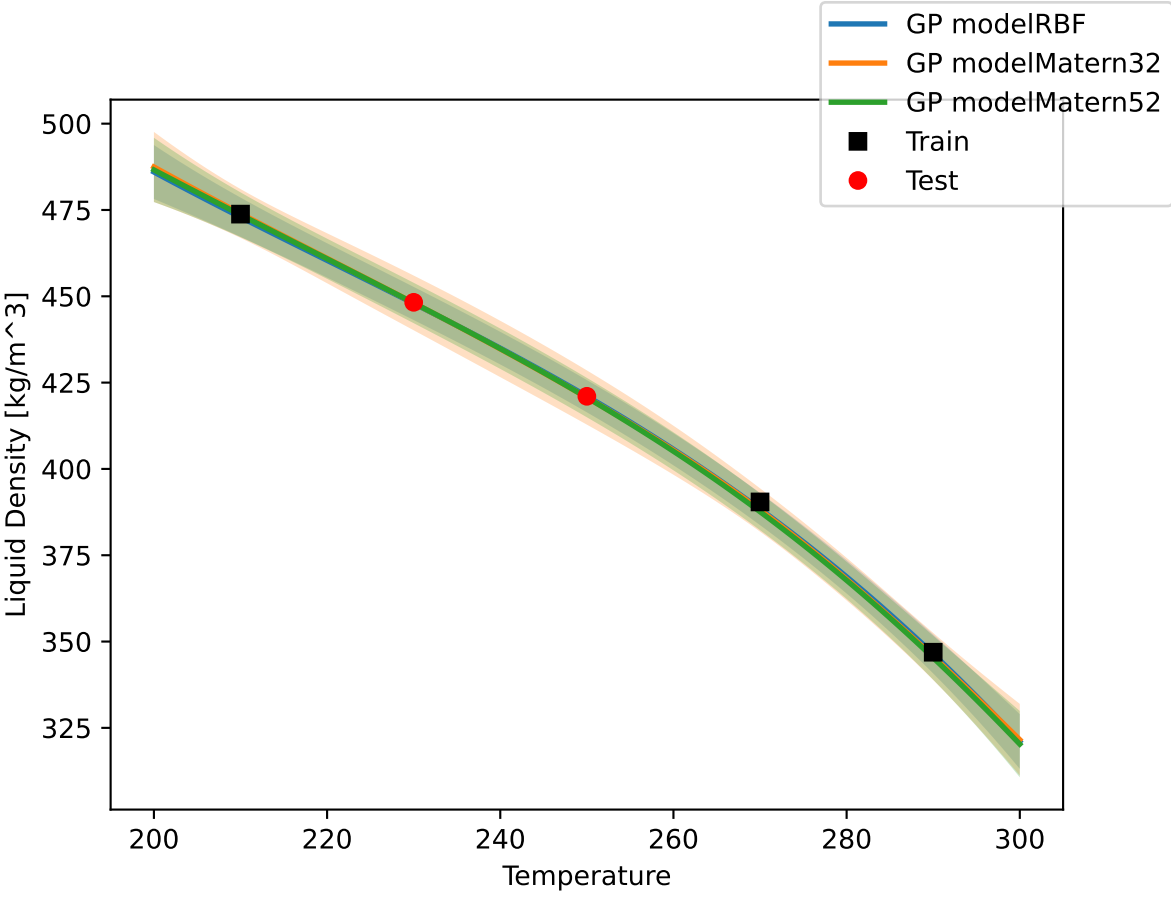
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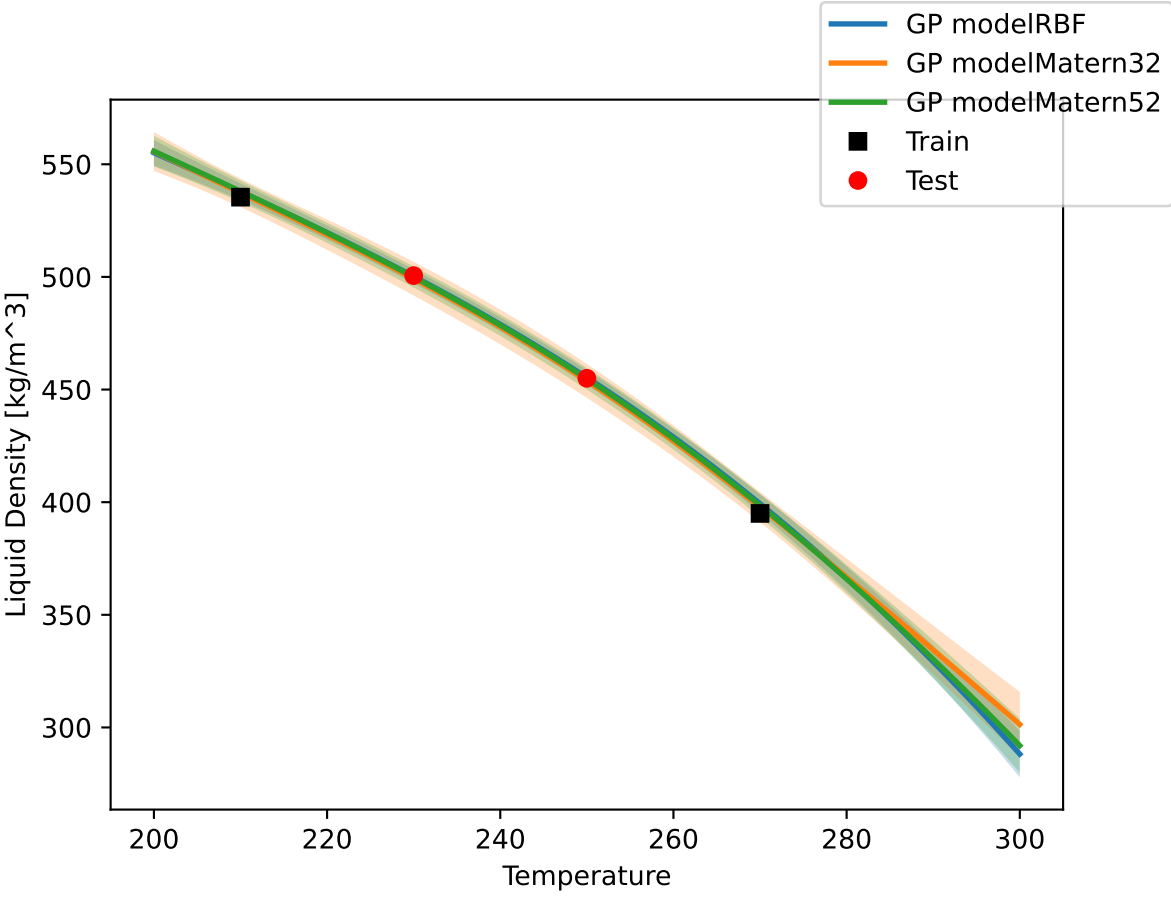
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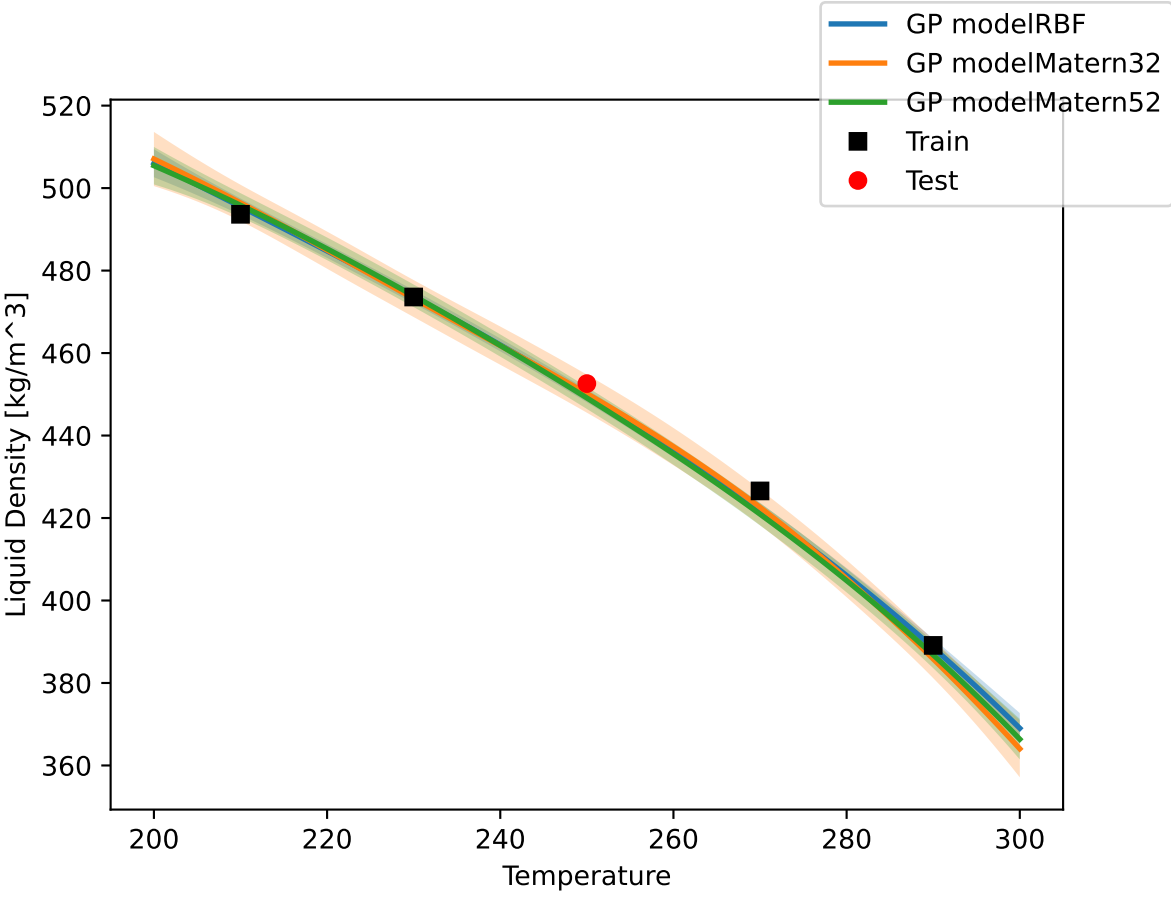
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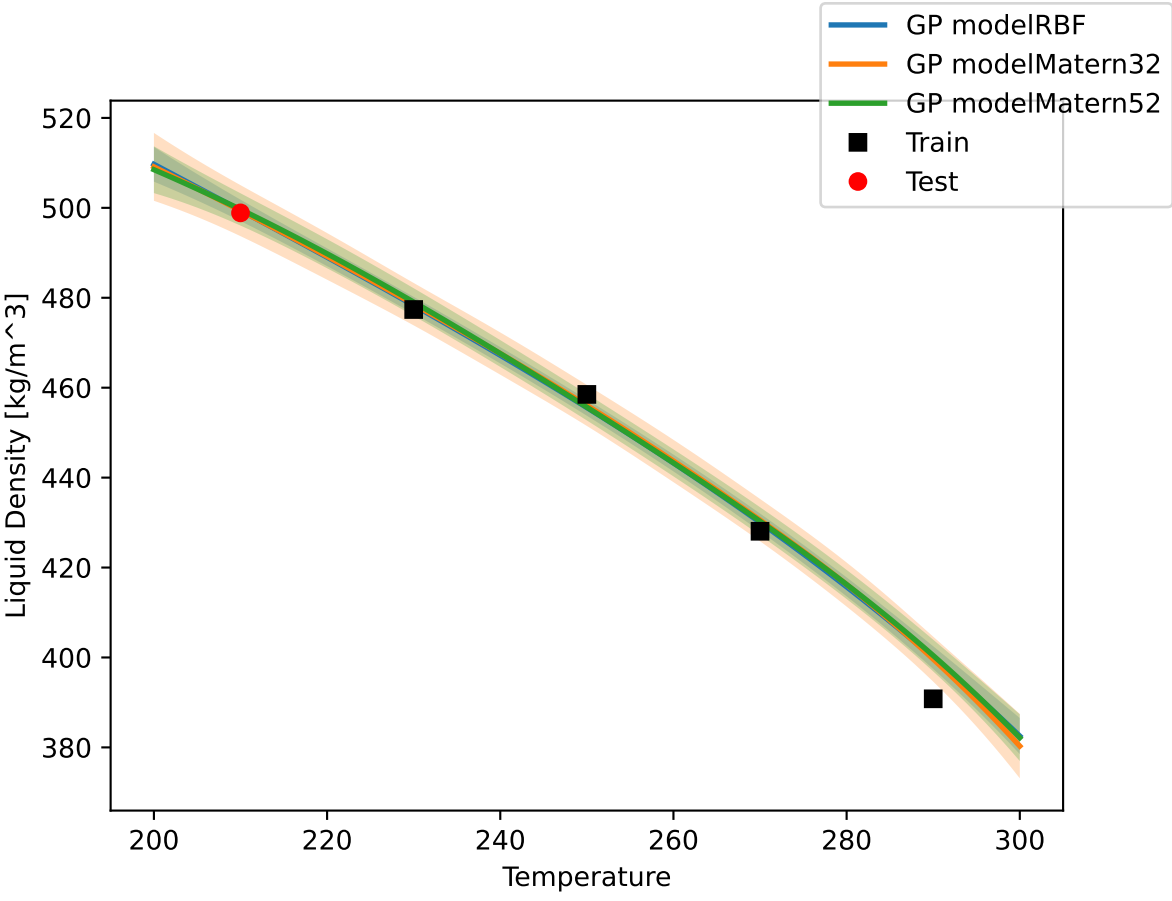
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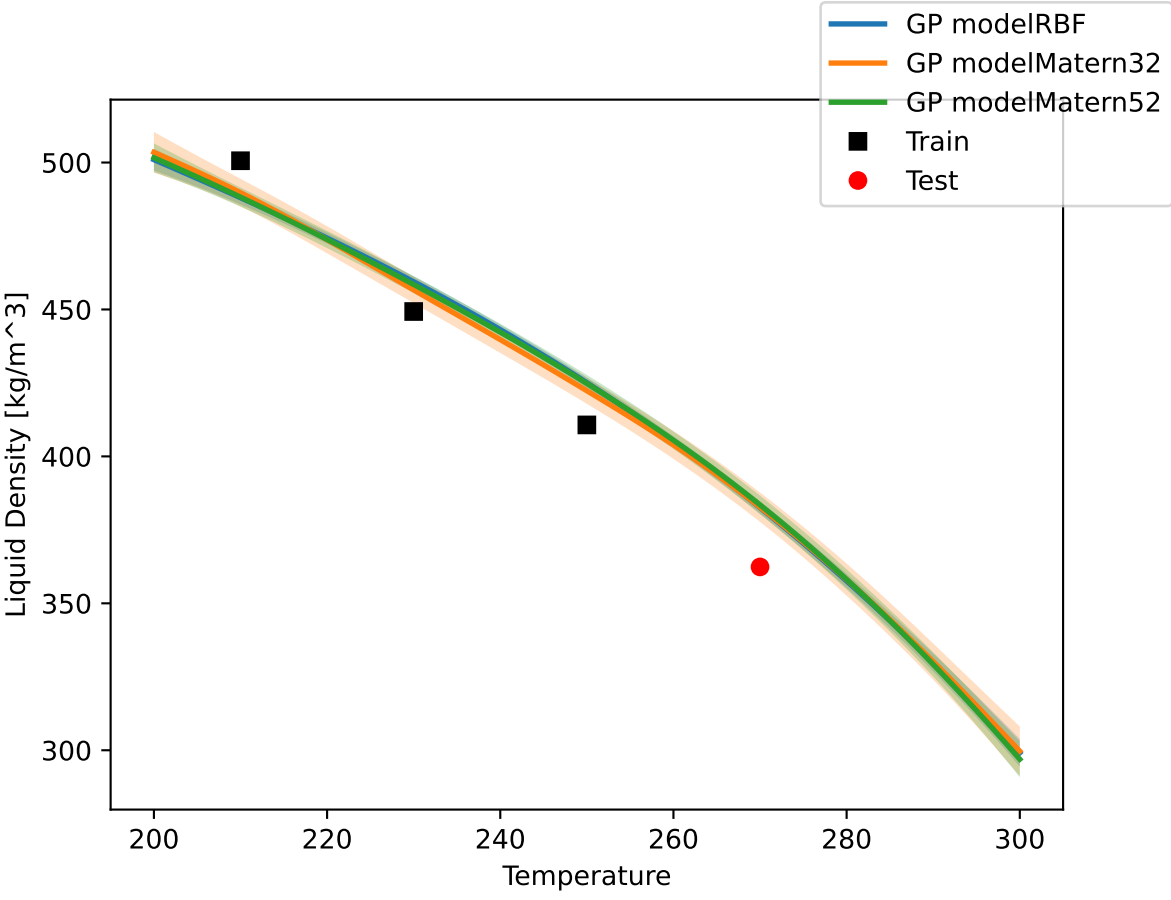
Temperature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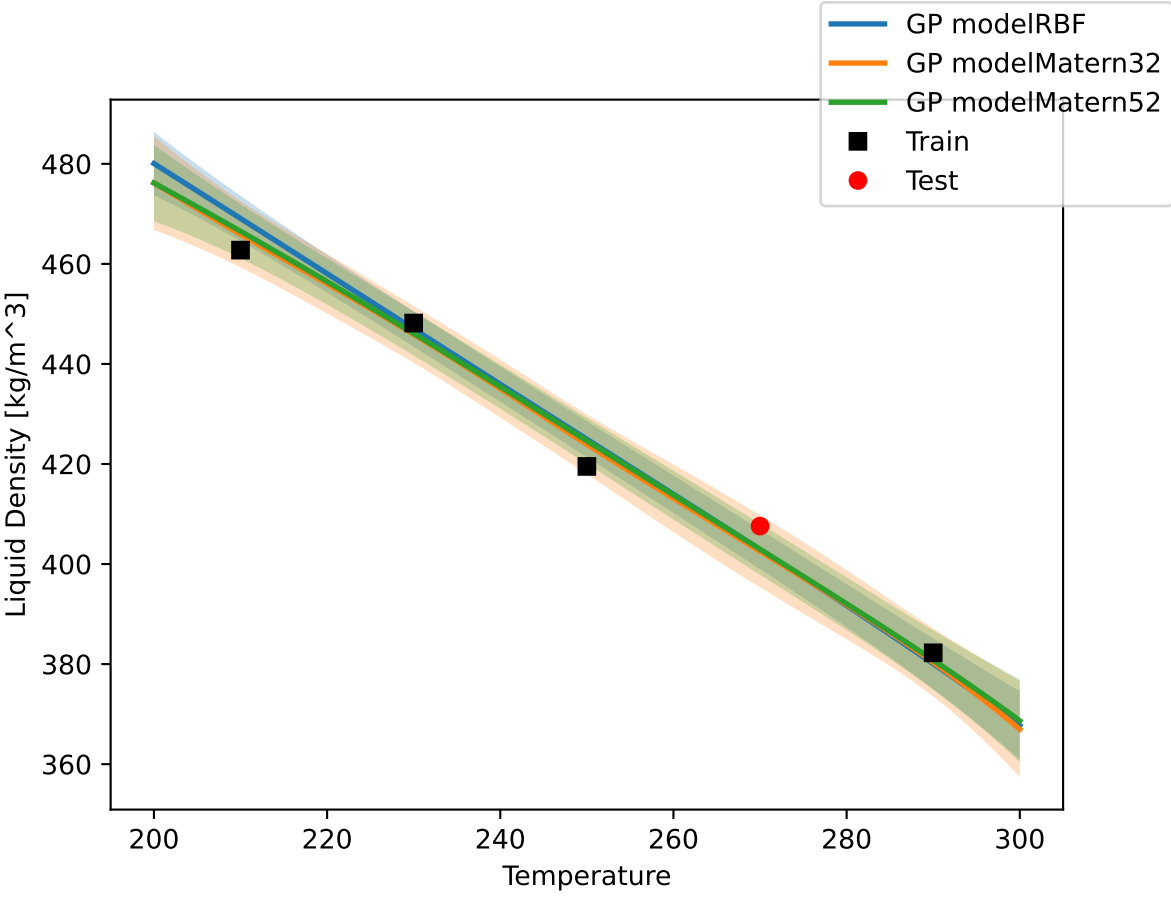
Temperature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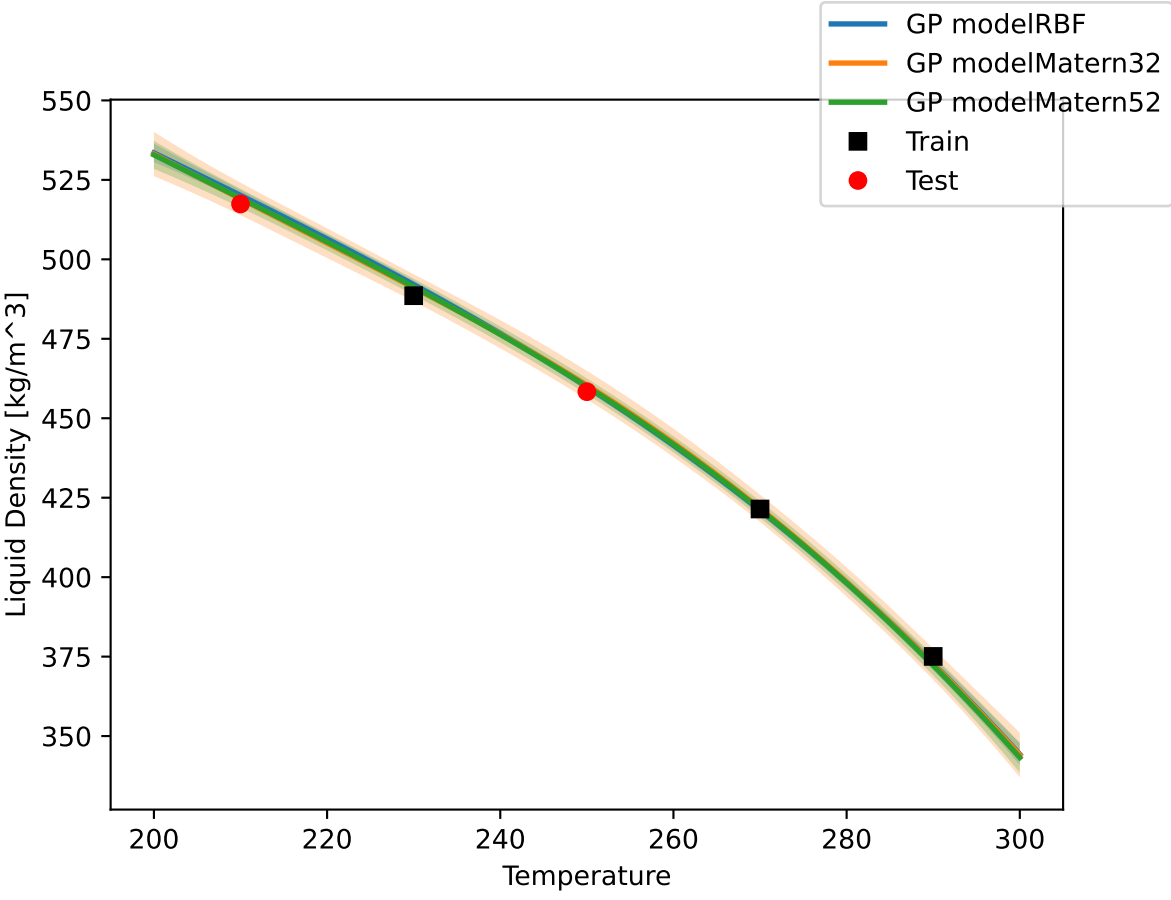
Temperature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GP modelMatern52
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Liquid Density [kg/m^3]
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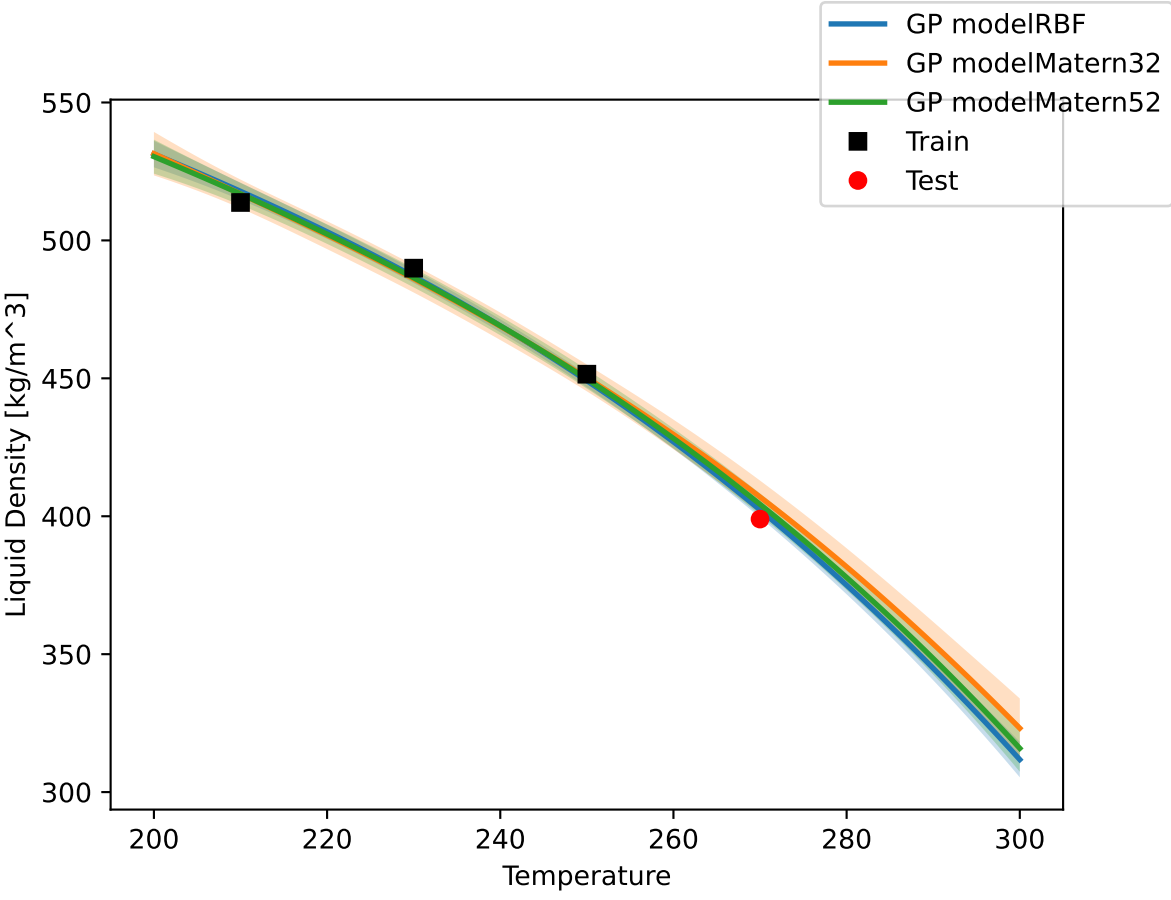
Temperature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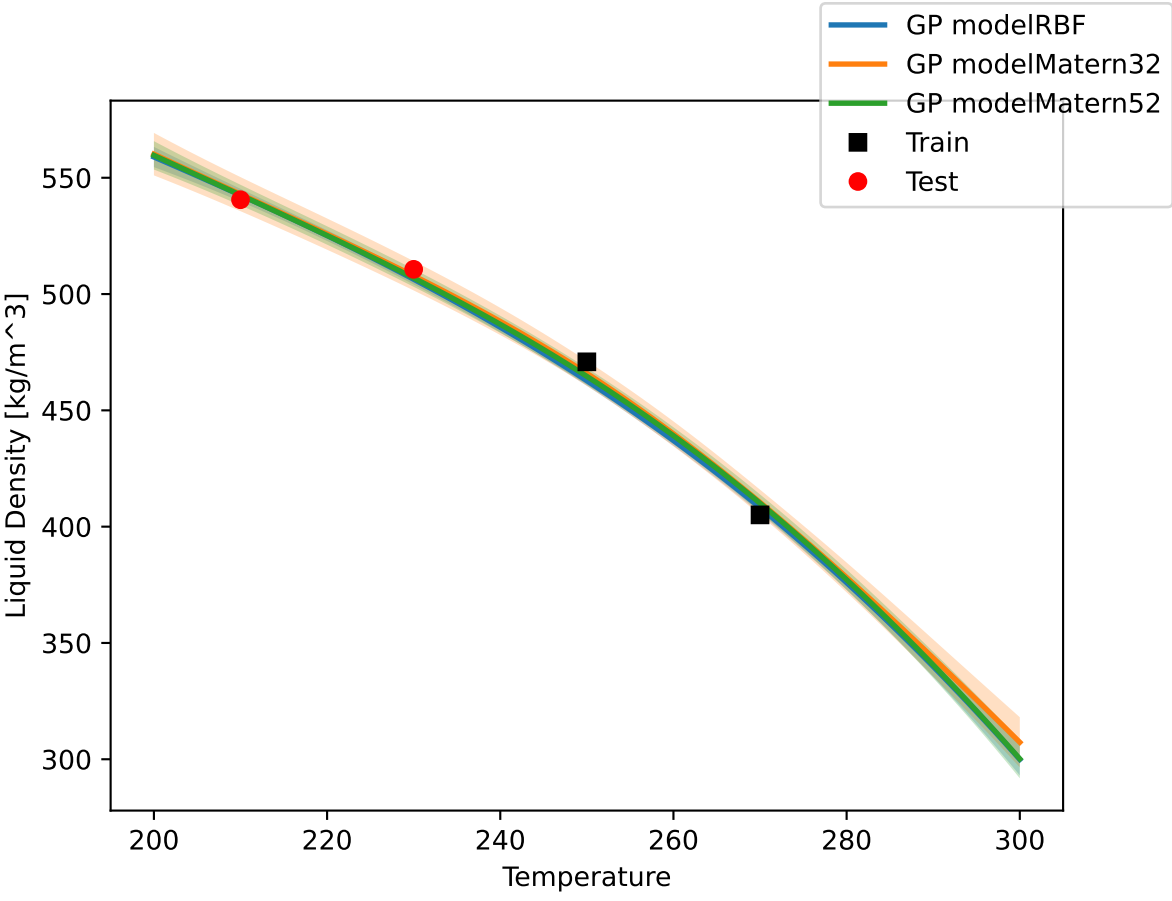
Temperature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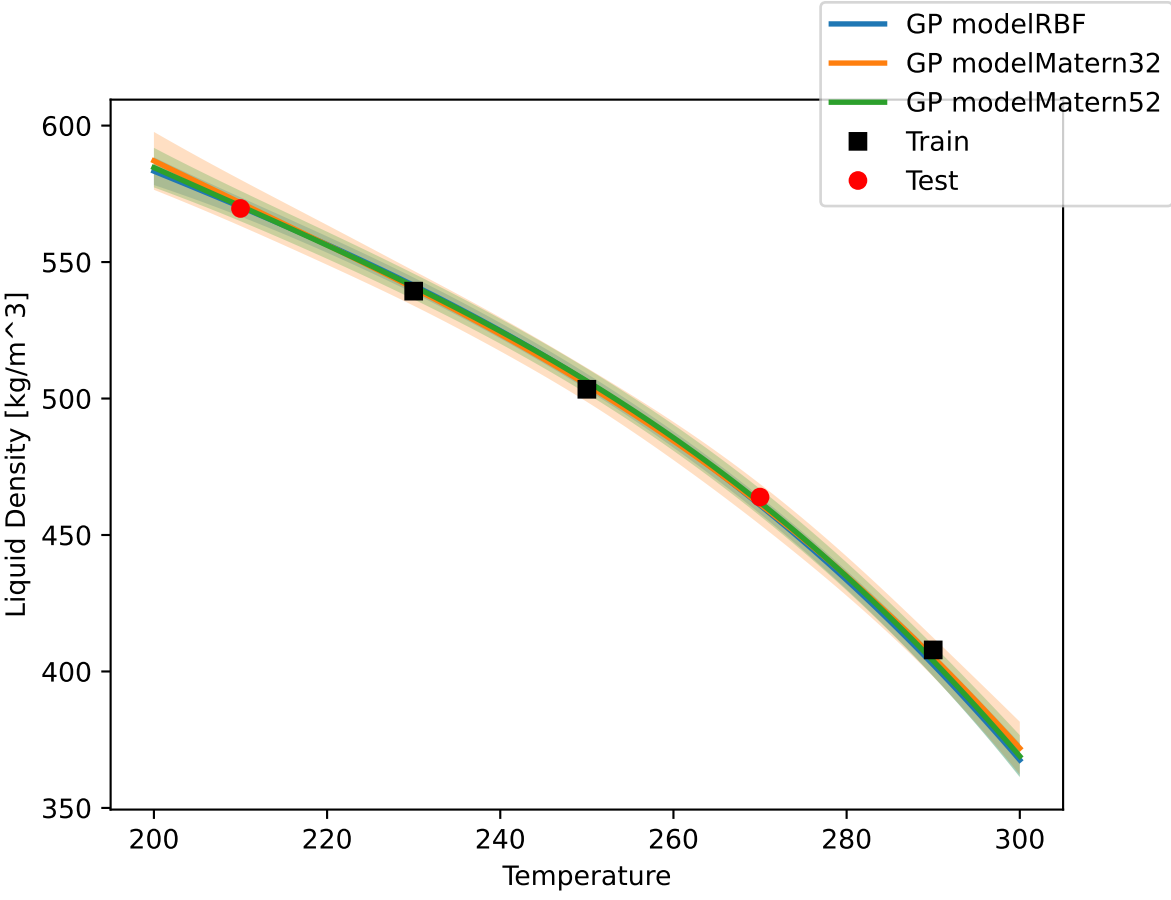
Temperature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Temperature
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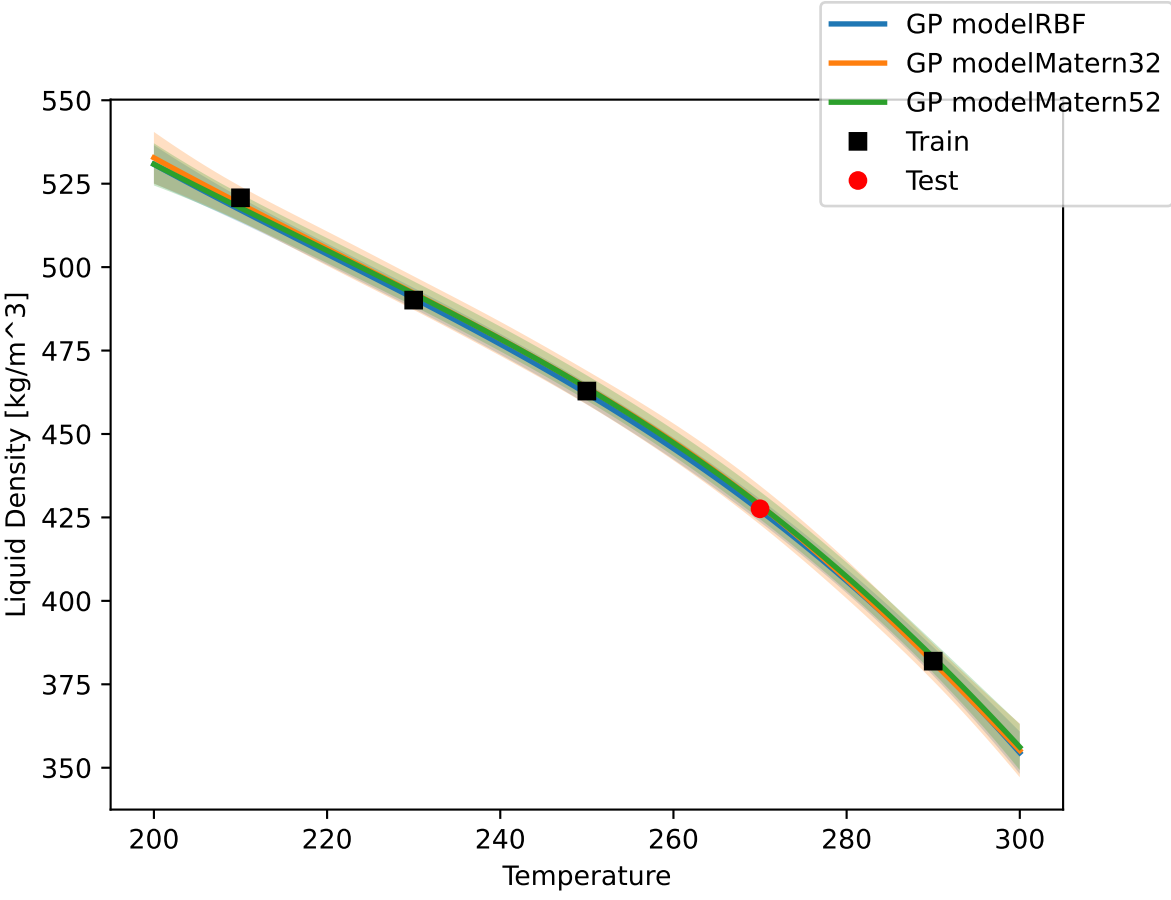
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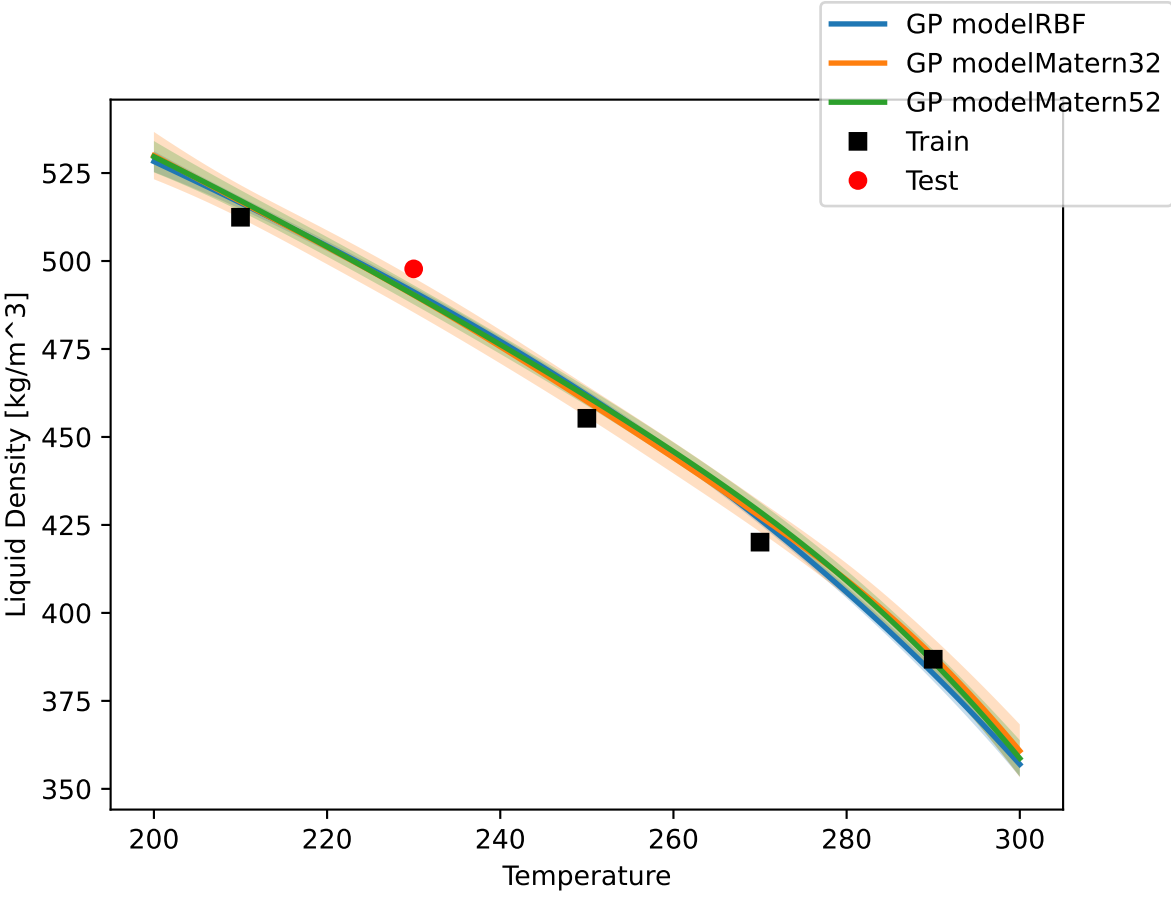
Temperature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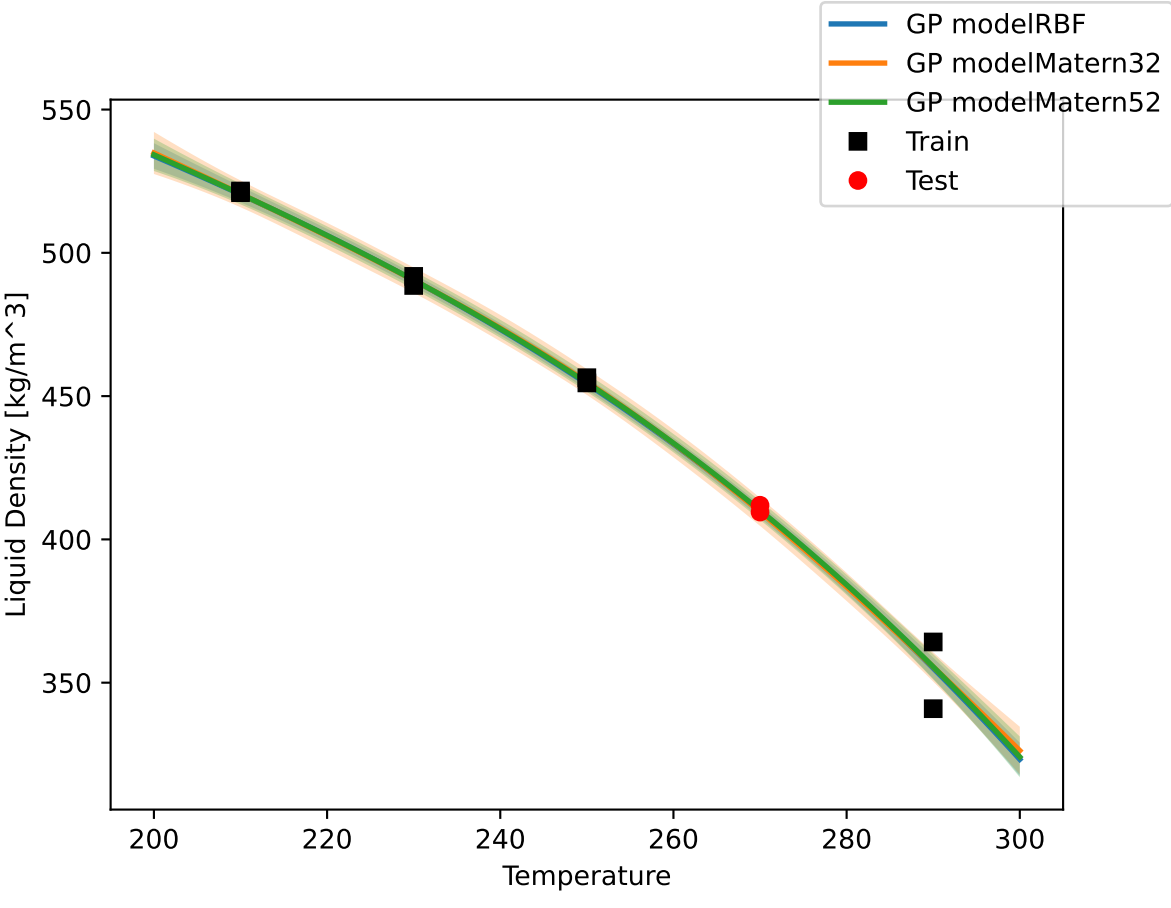
Temperature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Liquid Density [kg/m^3]
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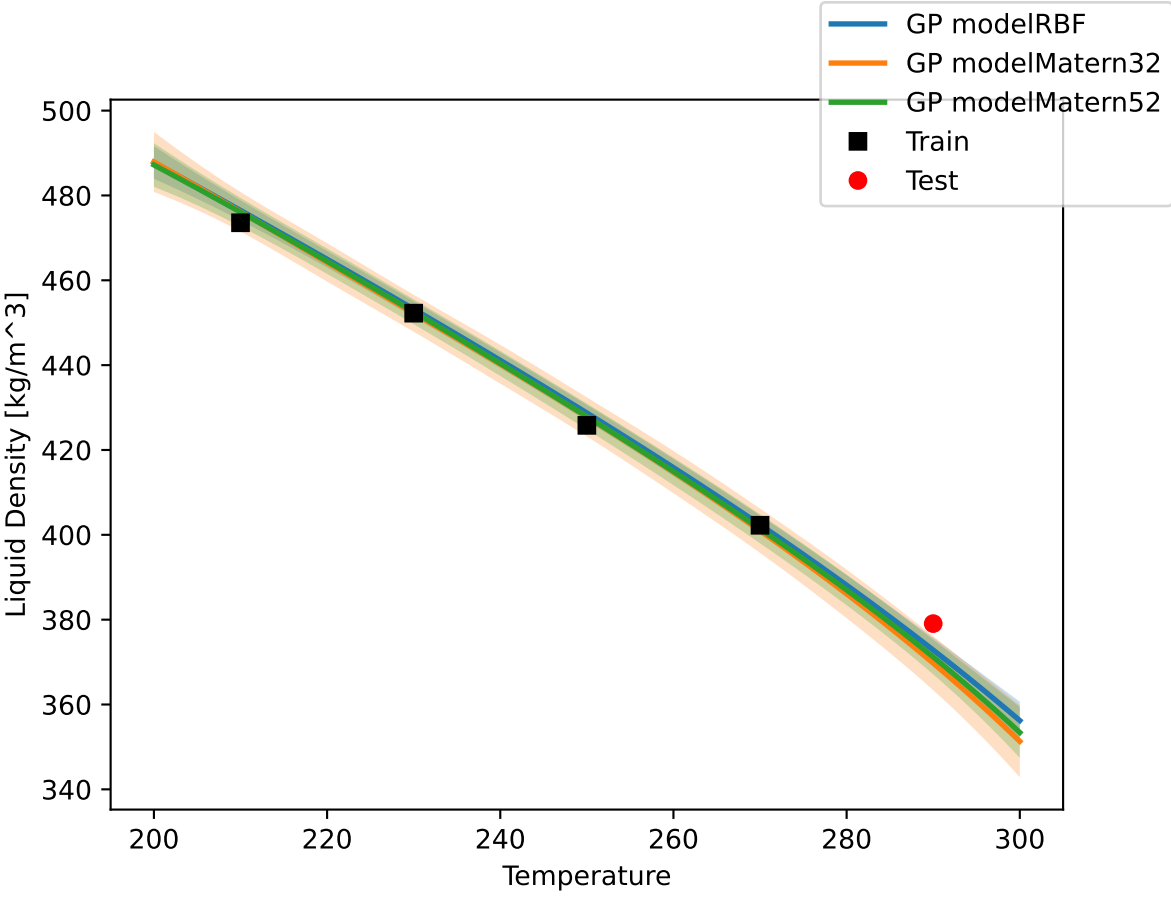
Temperature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Temperature
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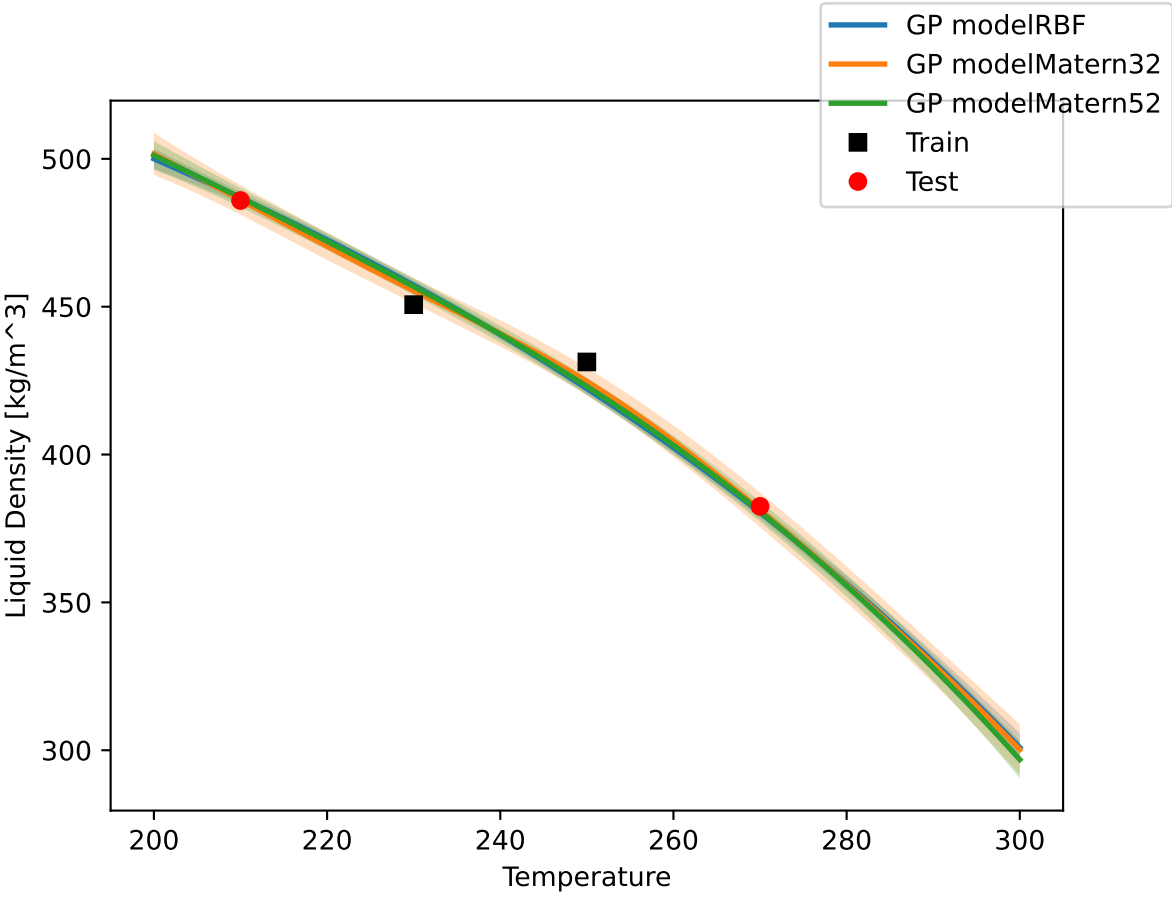
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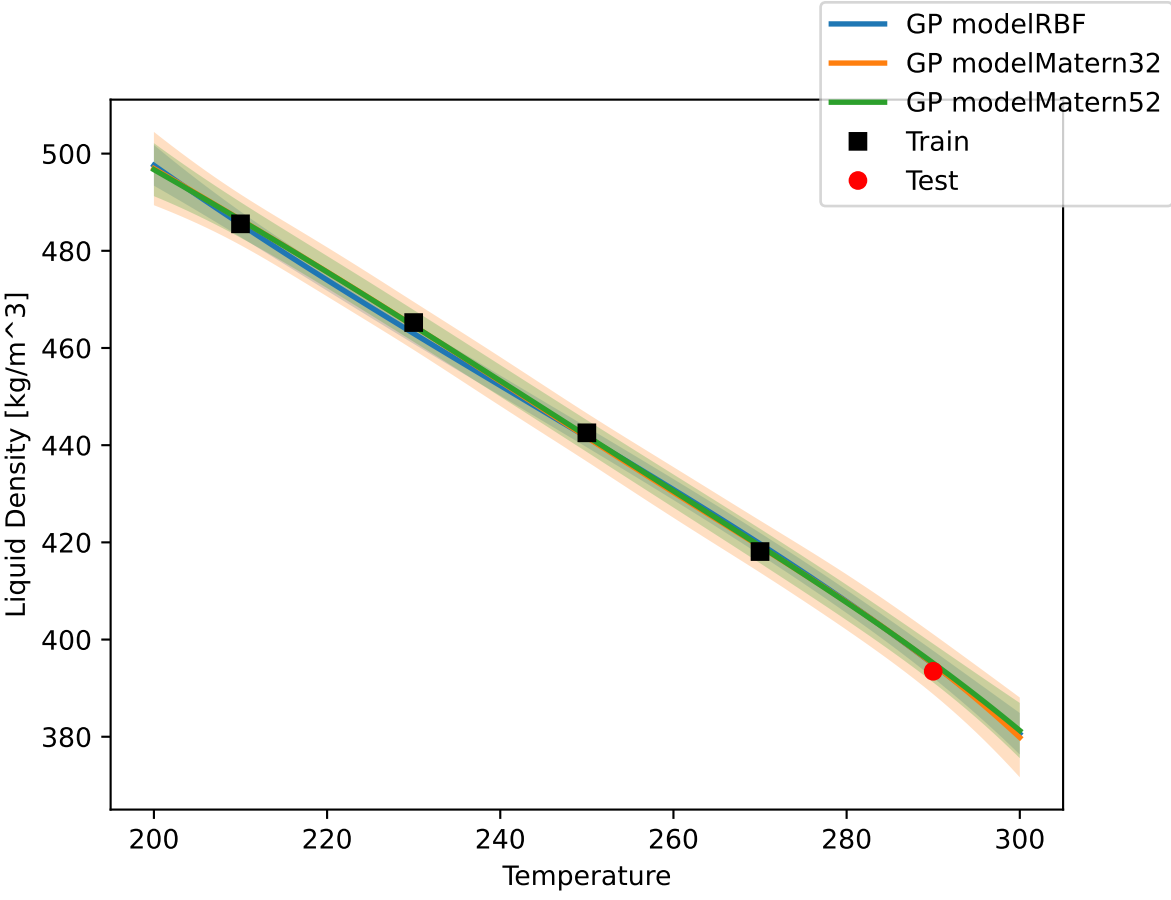
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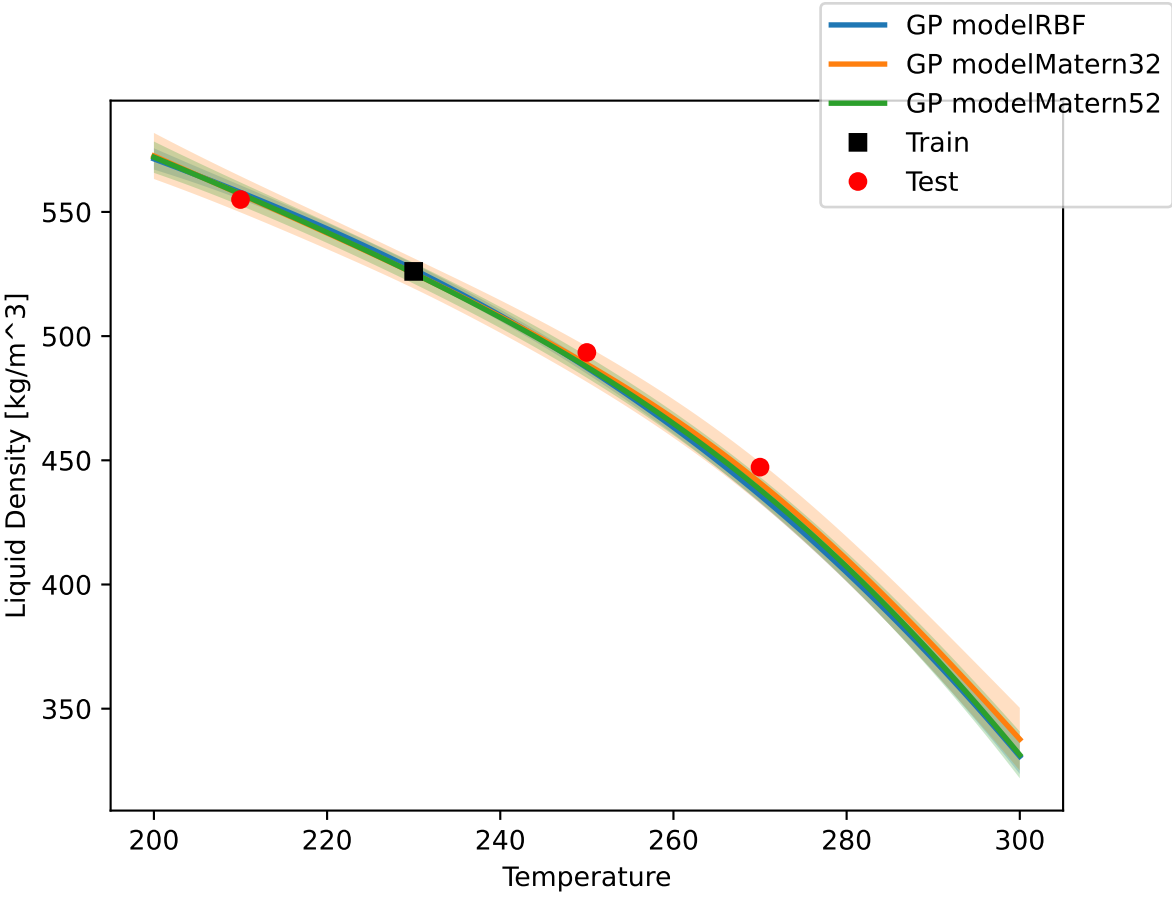
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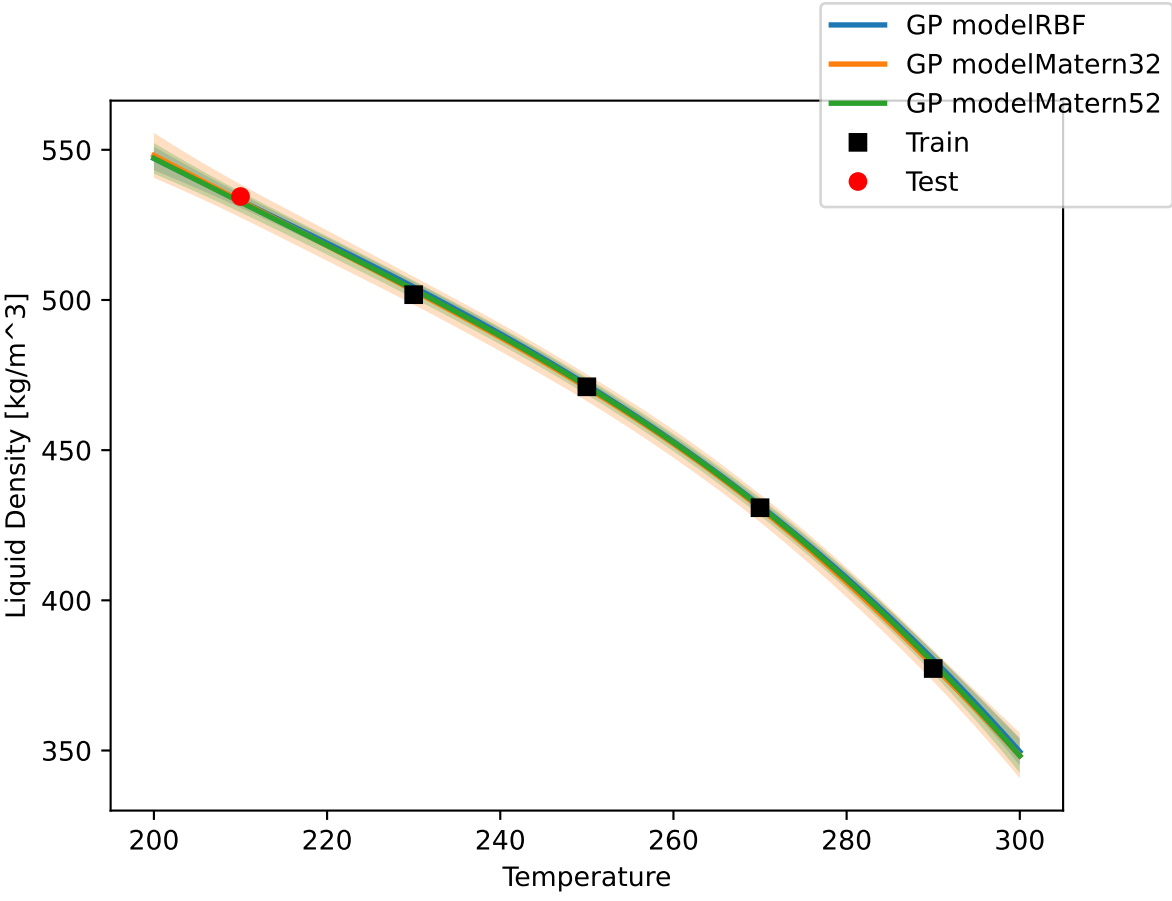
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Liquid Density [kg/m^3]
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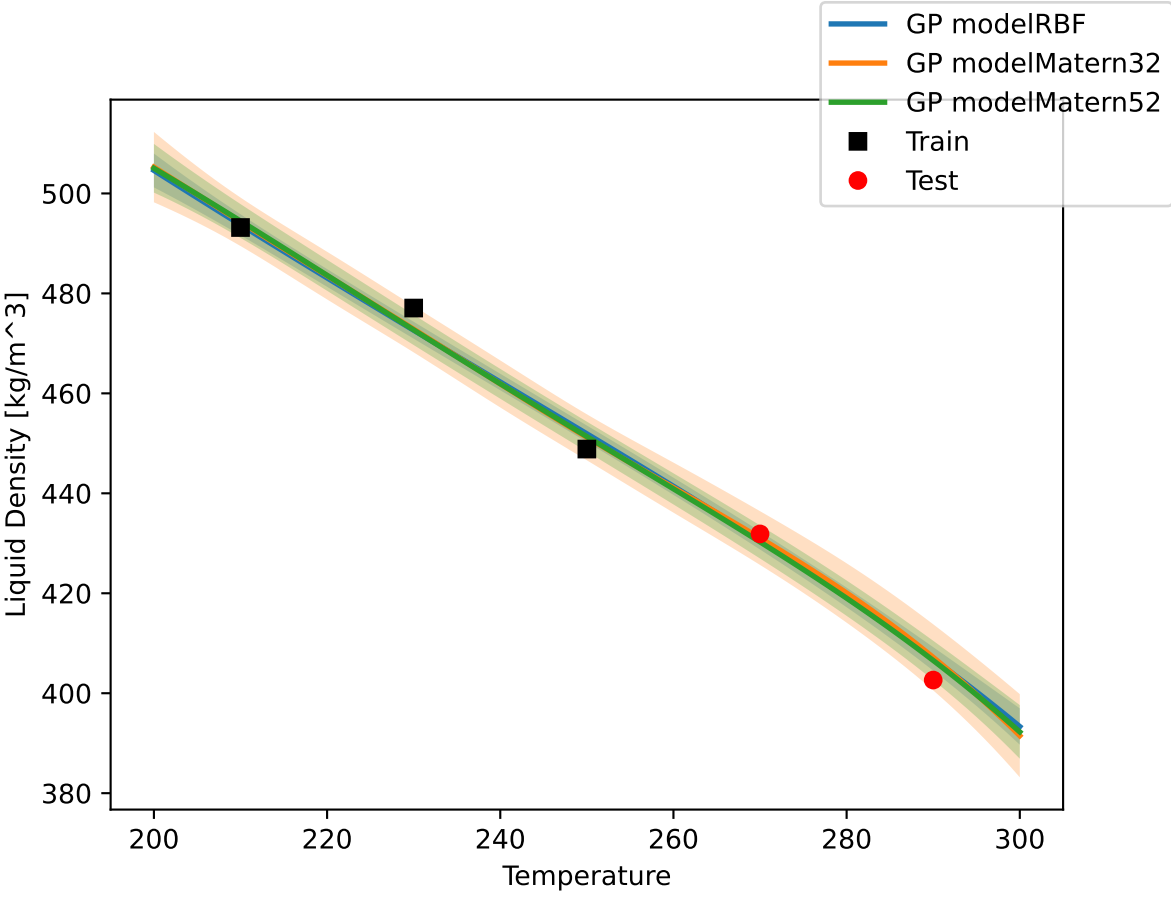
Temperature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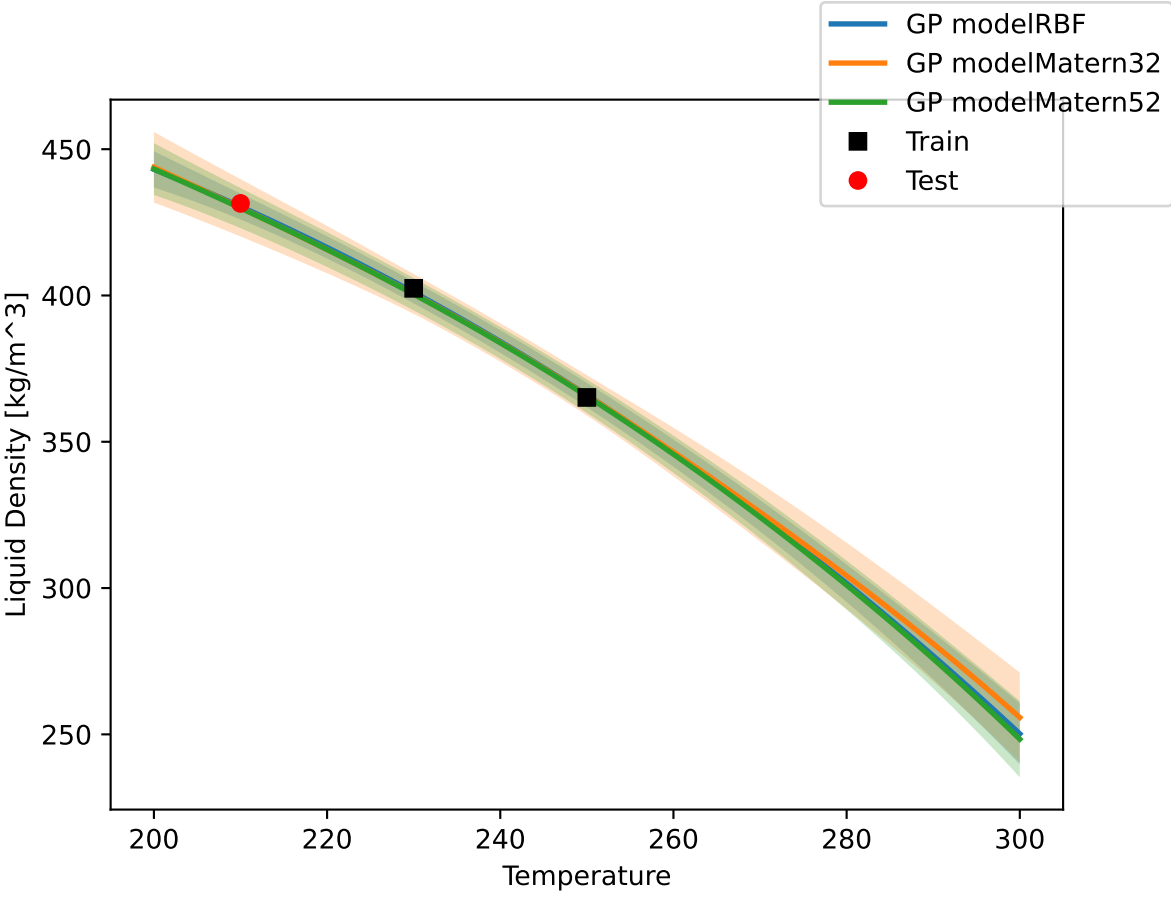
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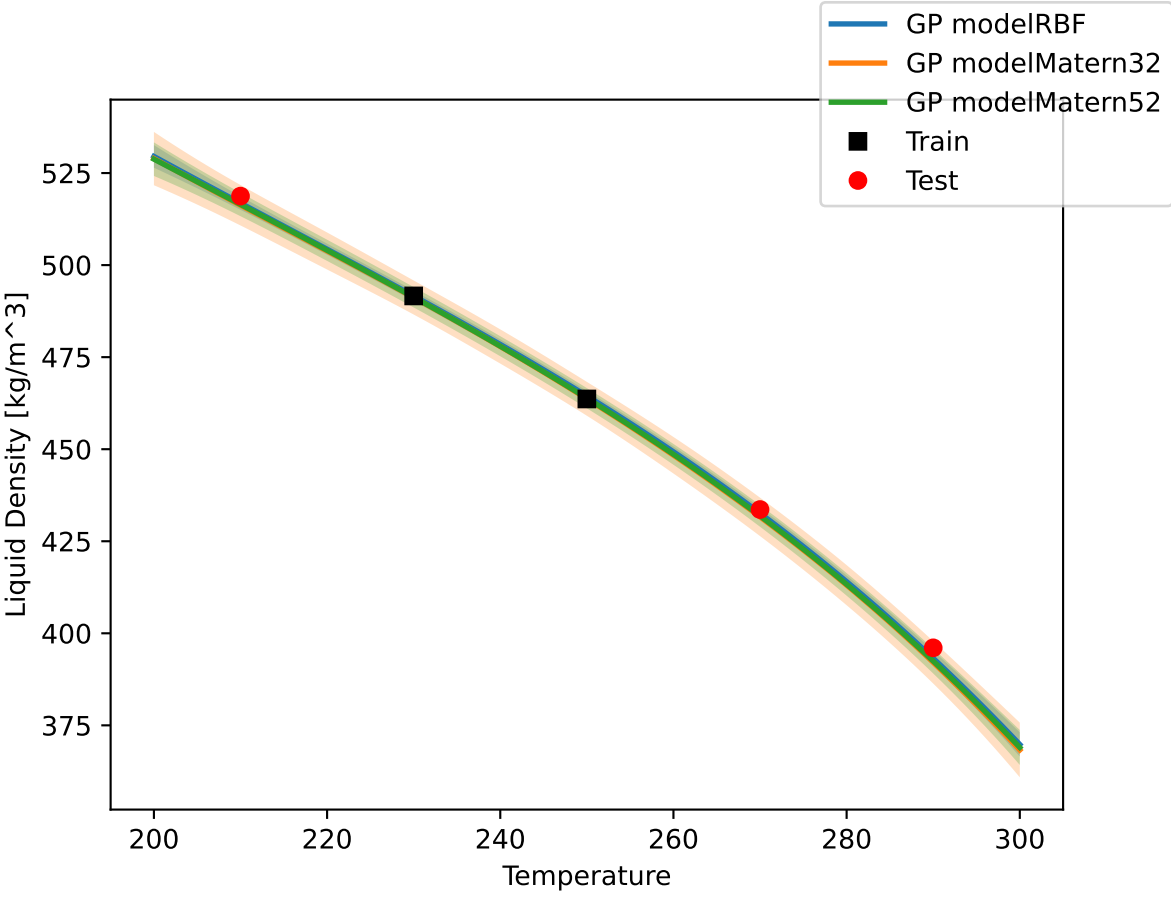
Temperature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Liquid Density [kg/m^3]
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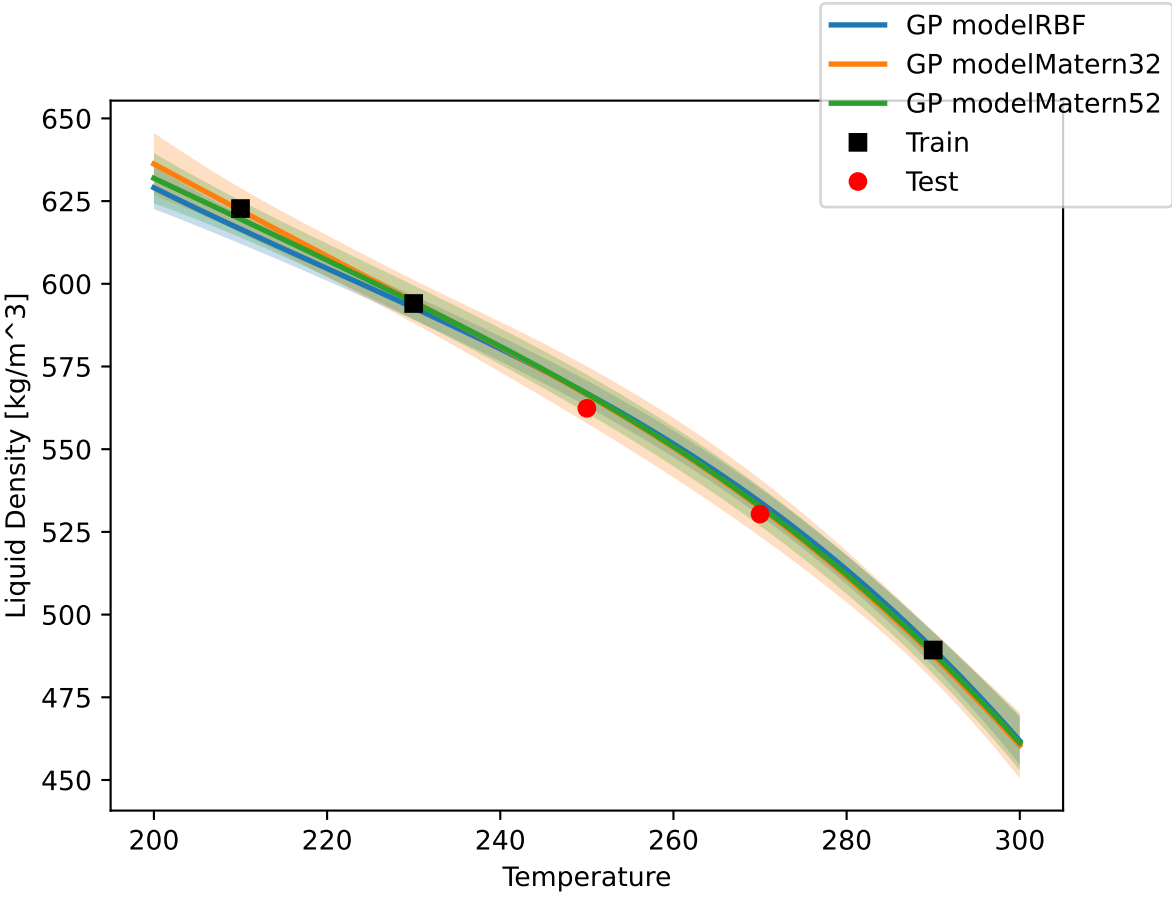
Temperature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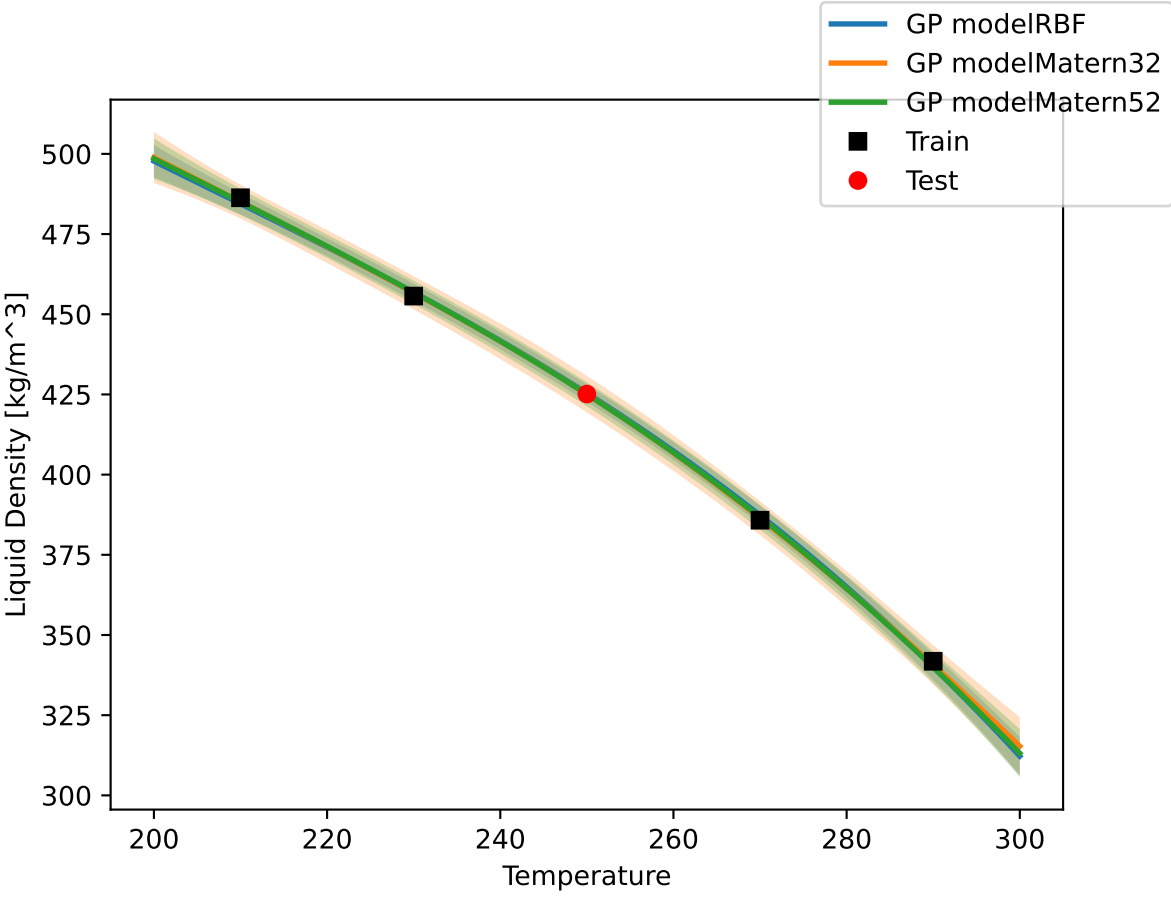
Temperature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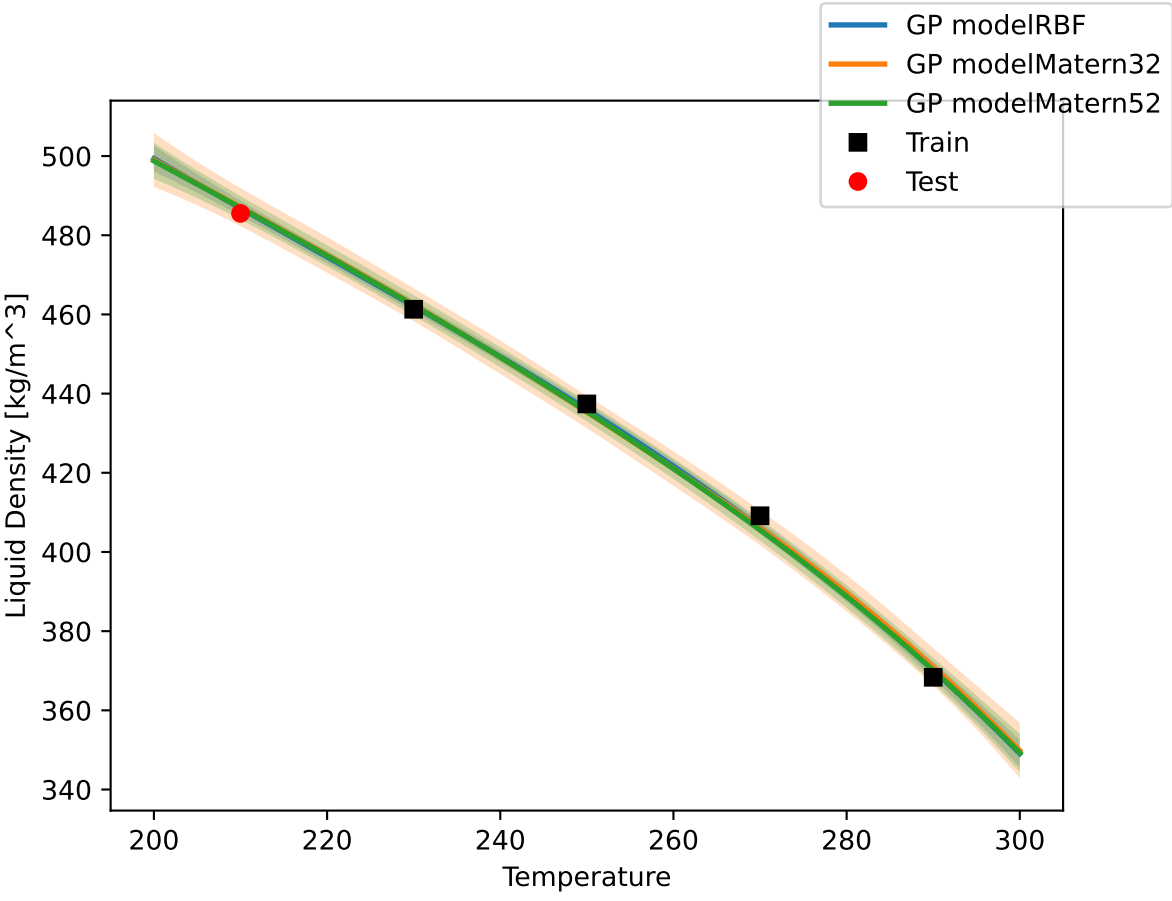
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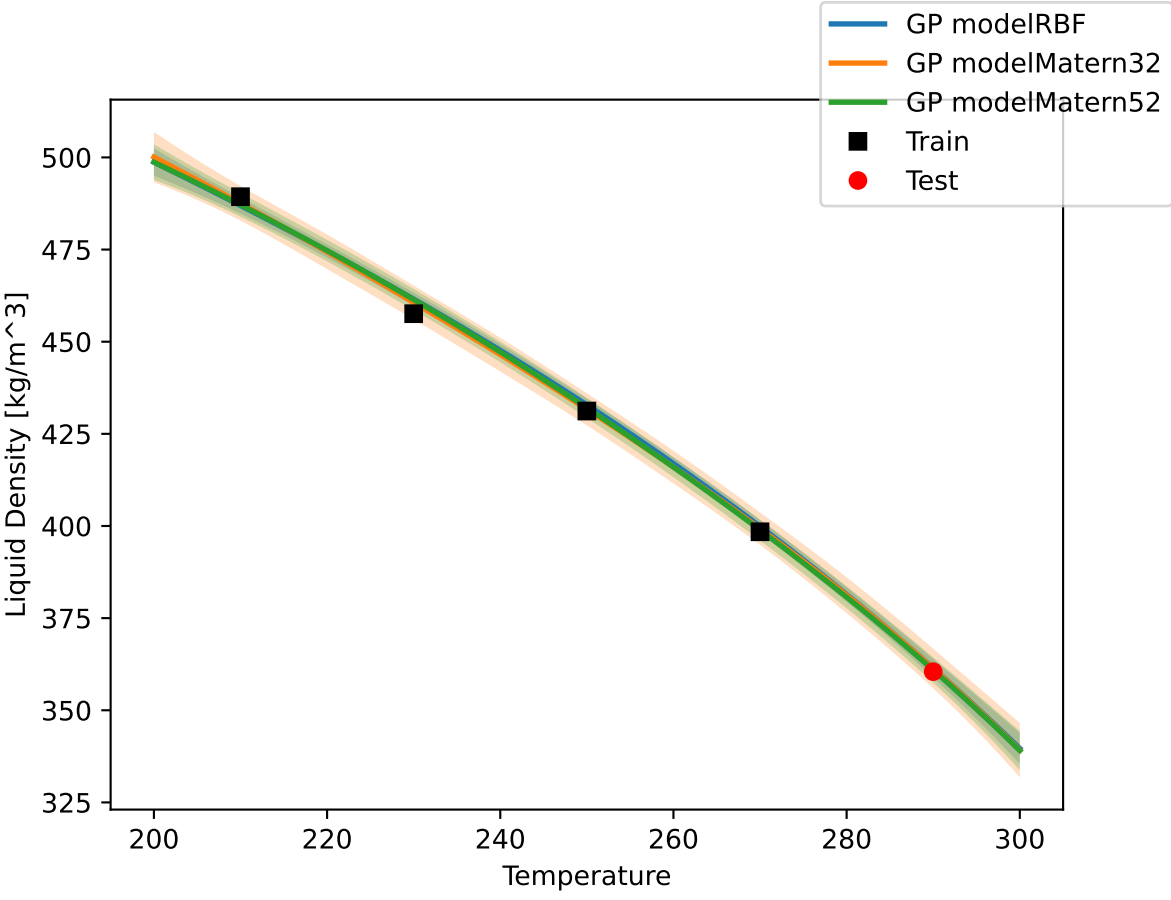
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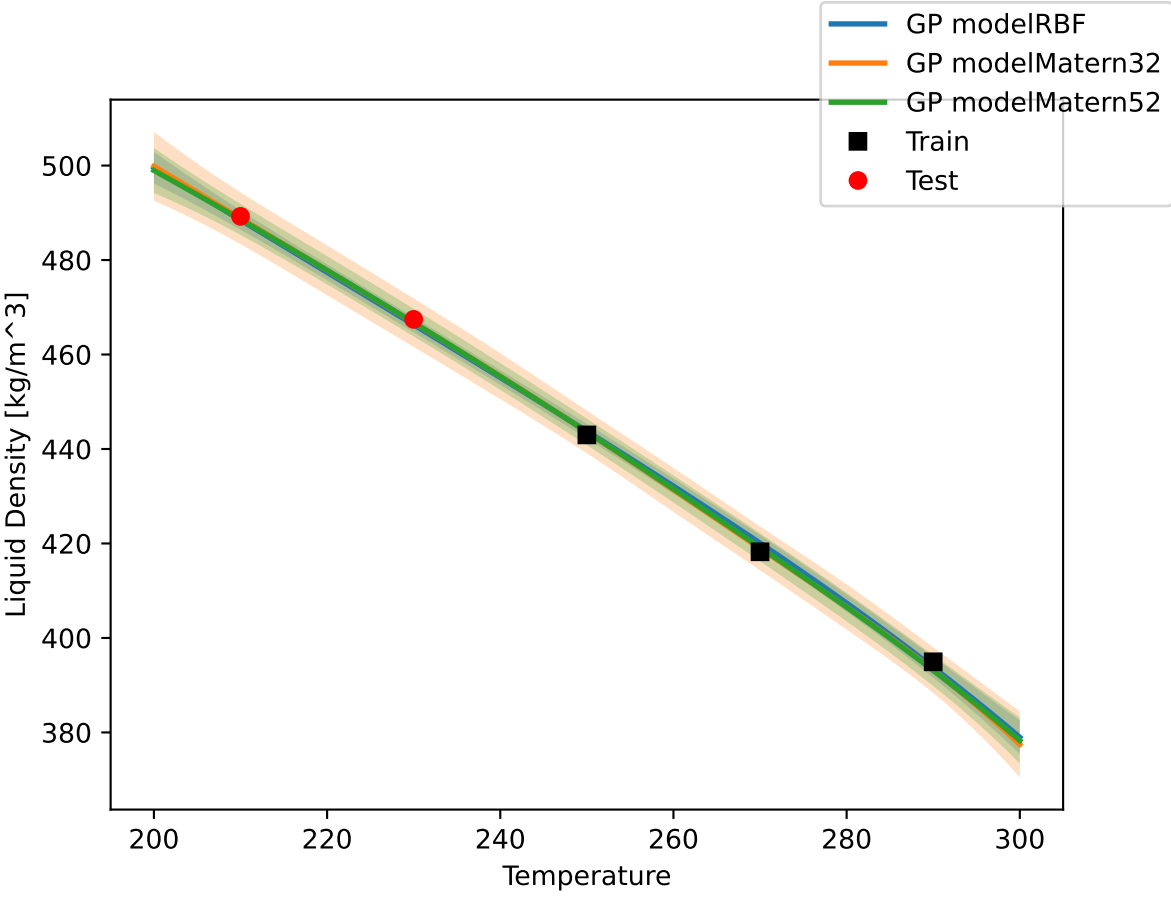
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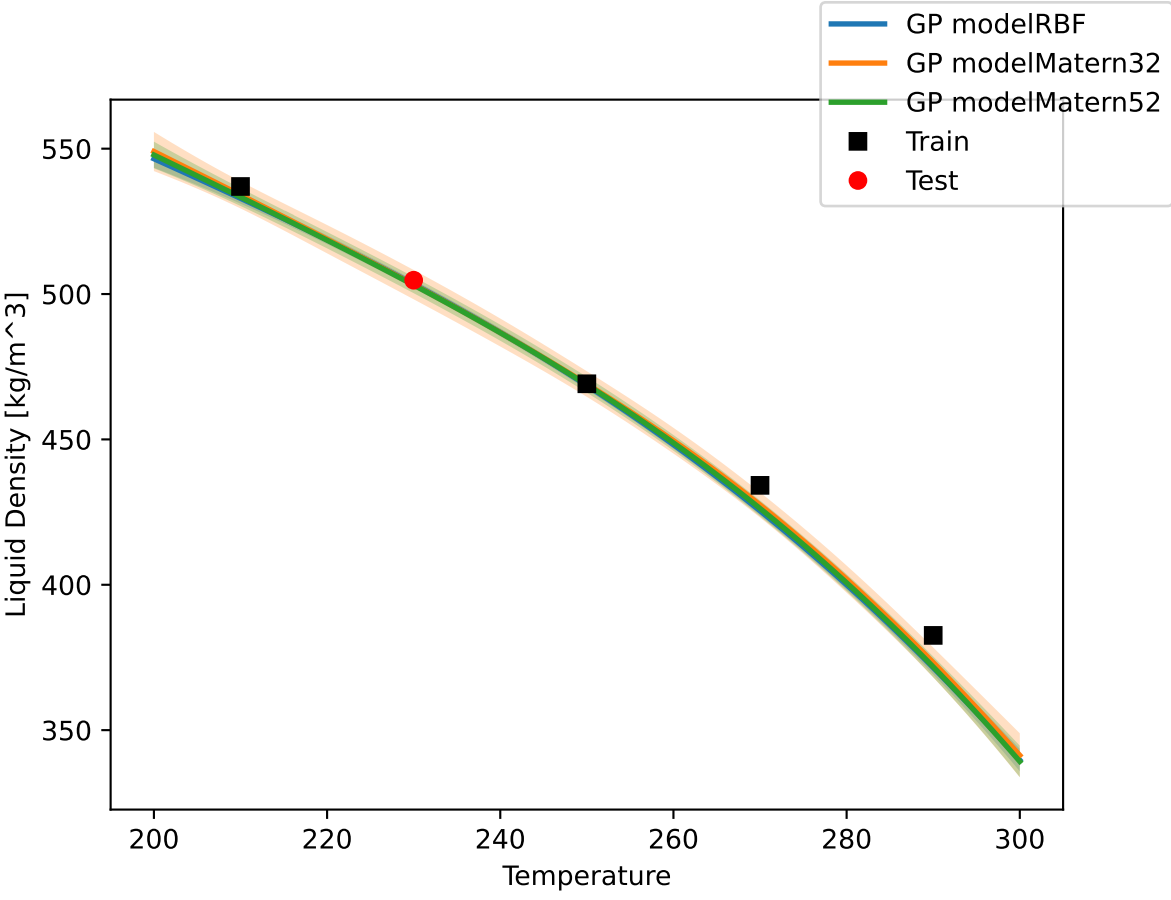
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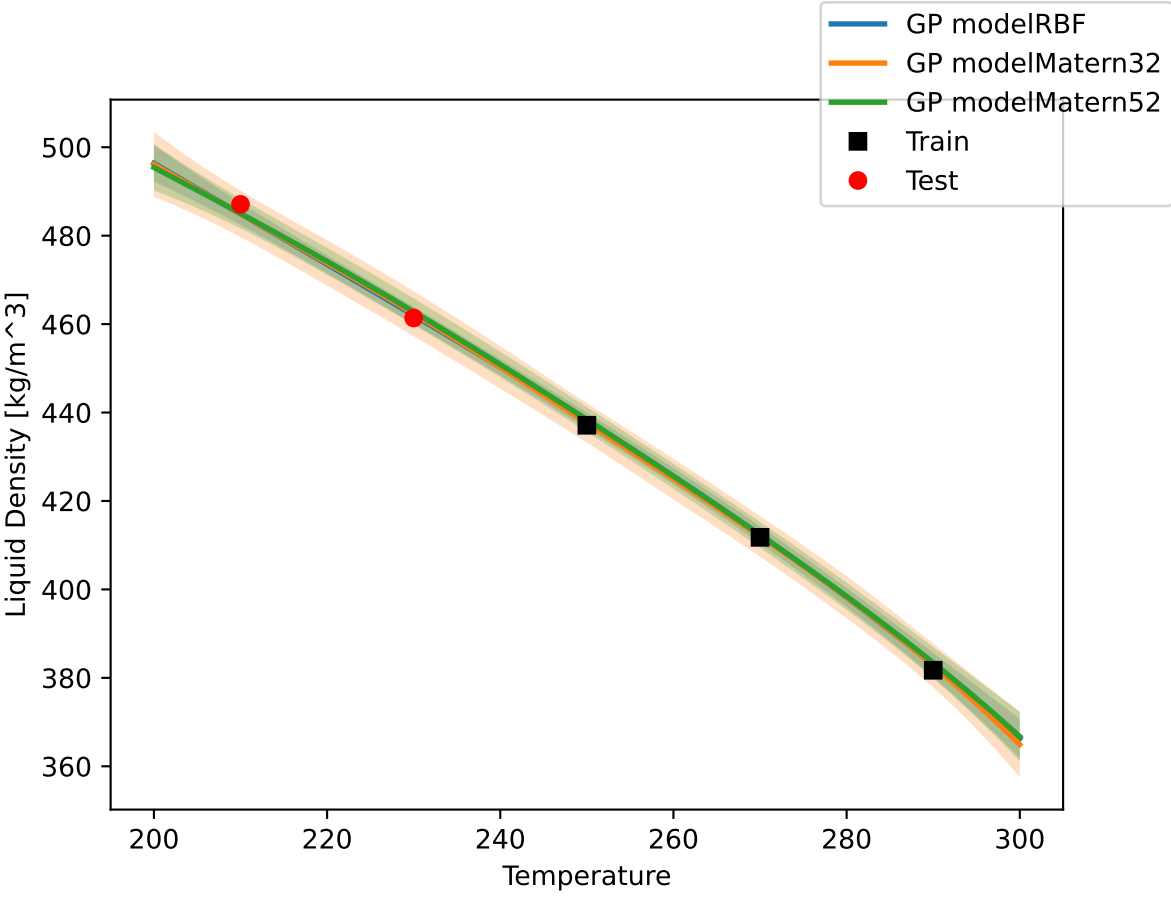
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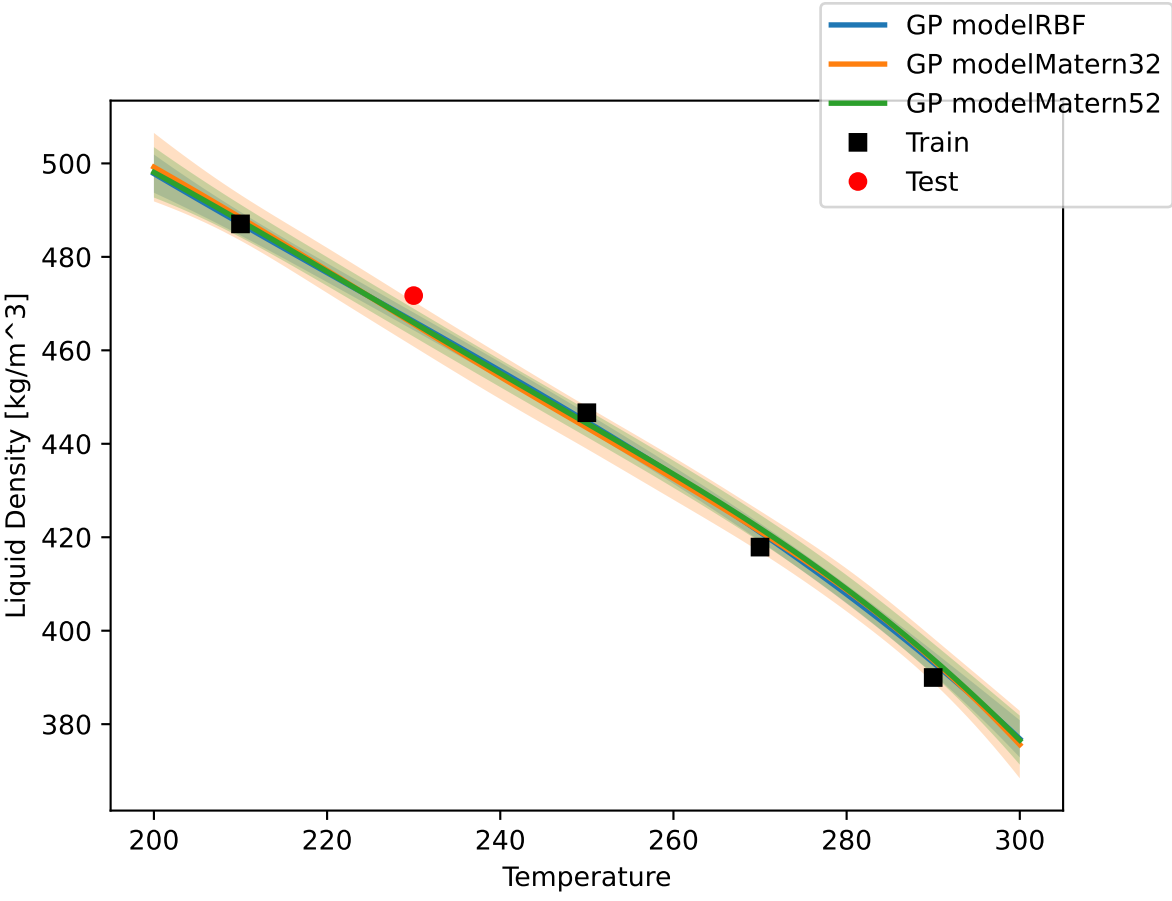
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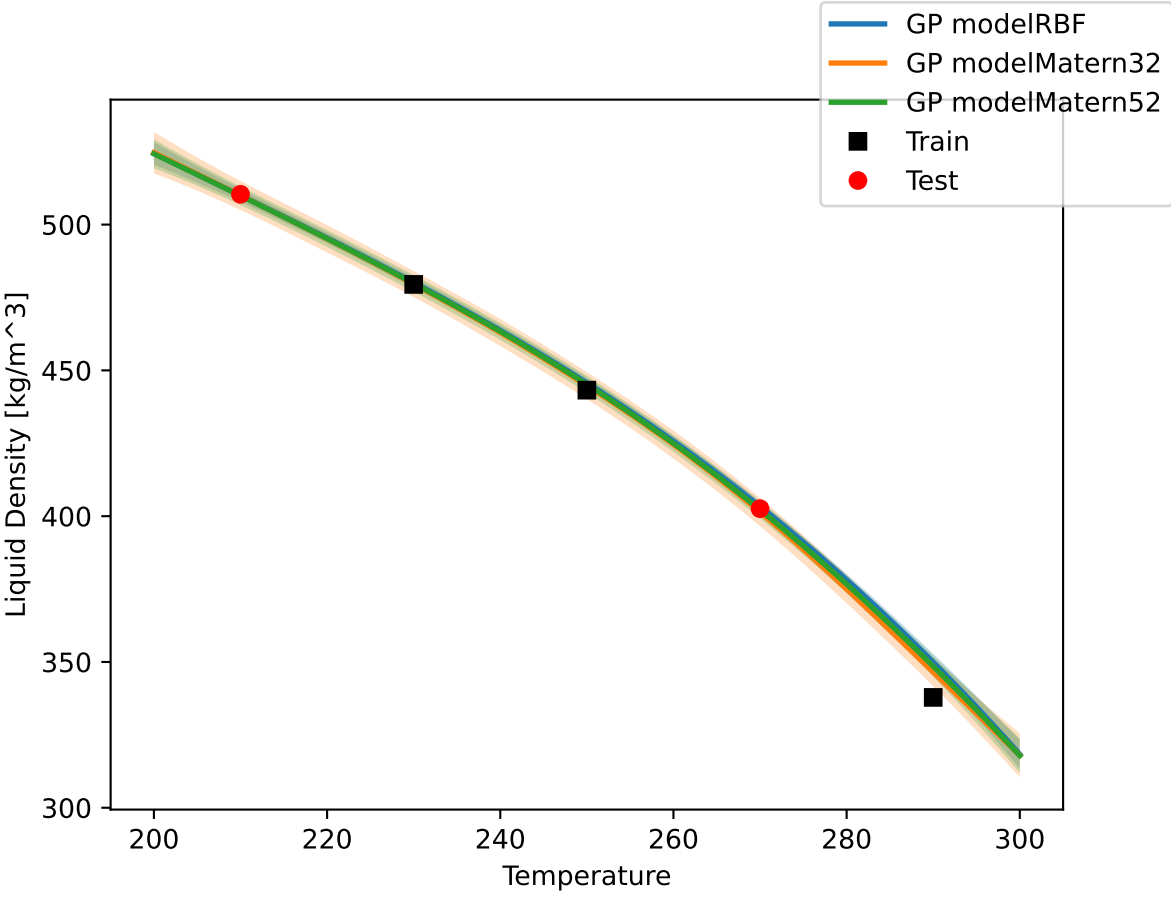
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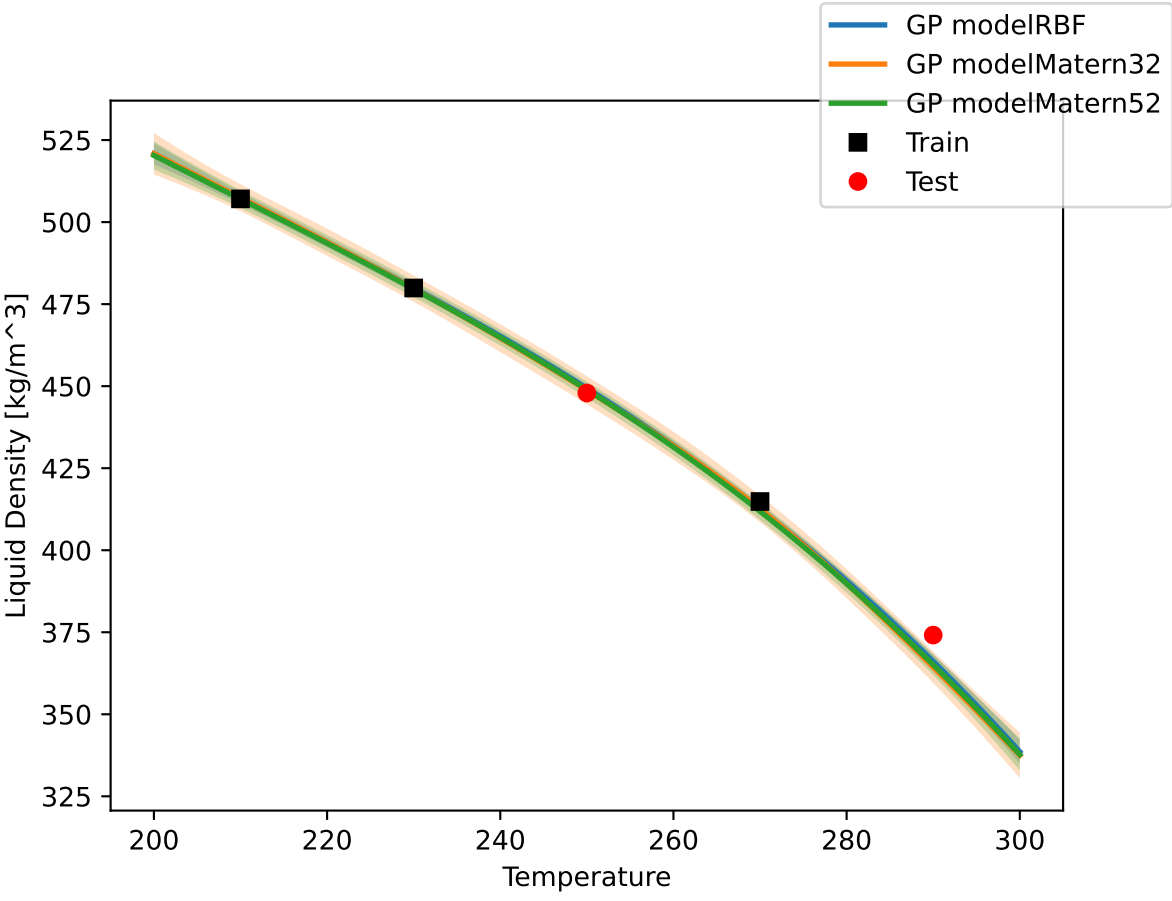
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Train
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Liquid Density [kg/m^3]
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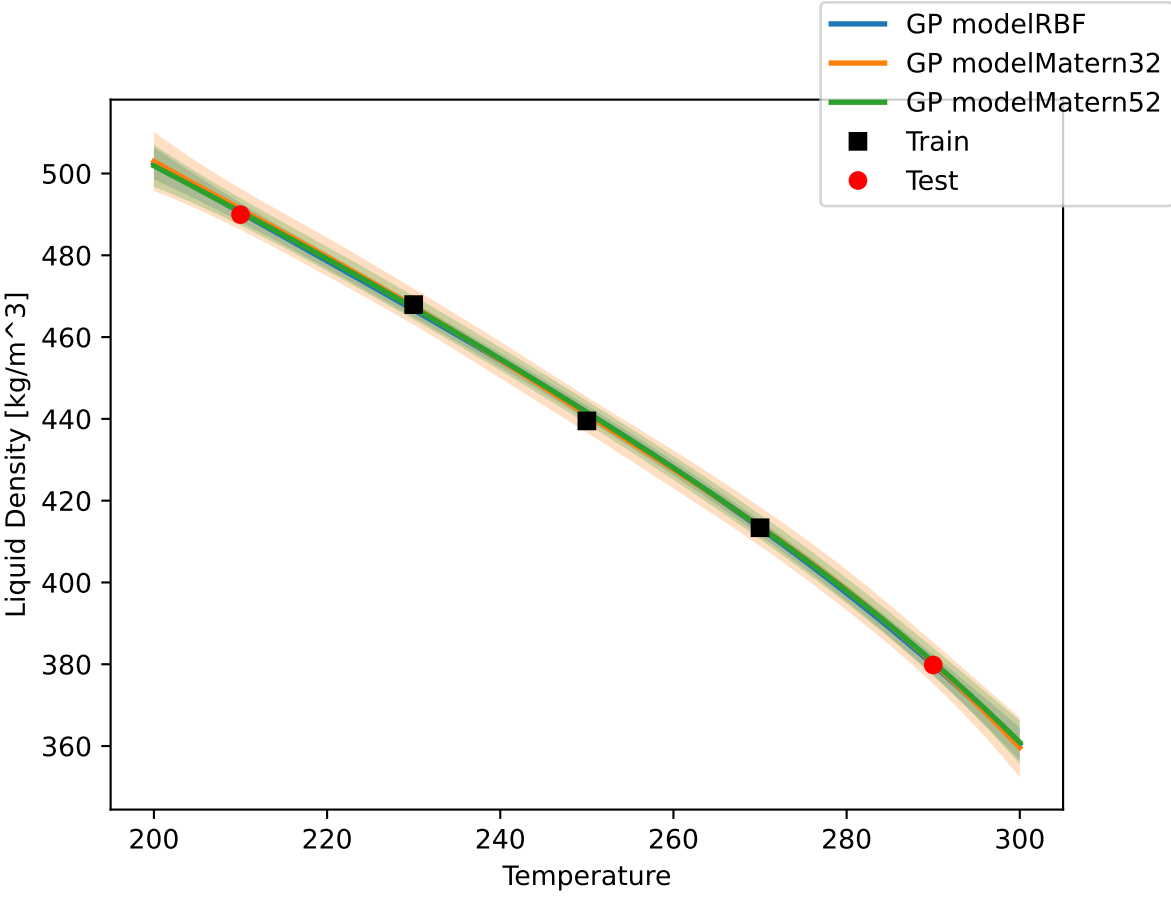
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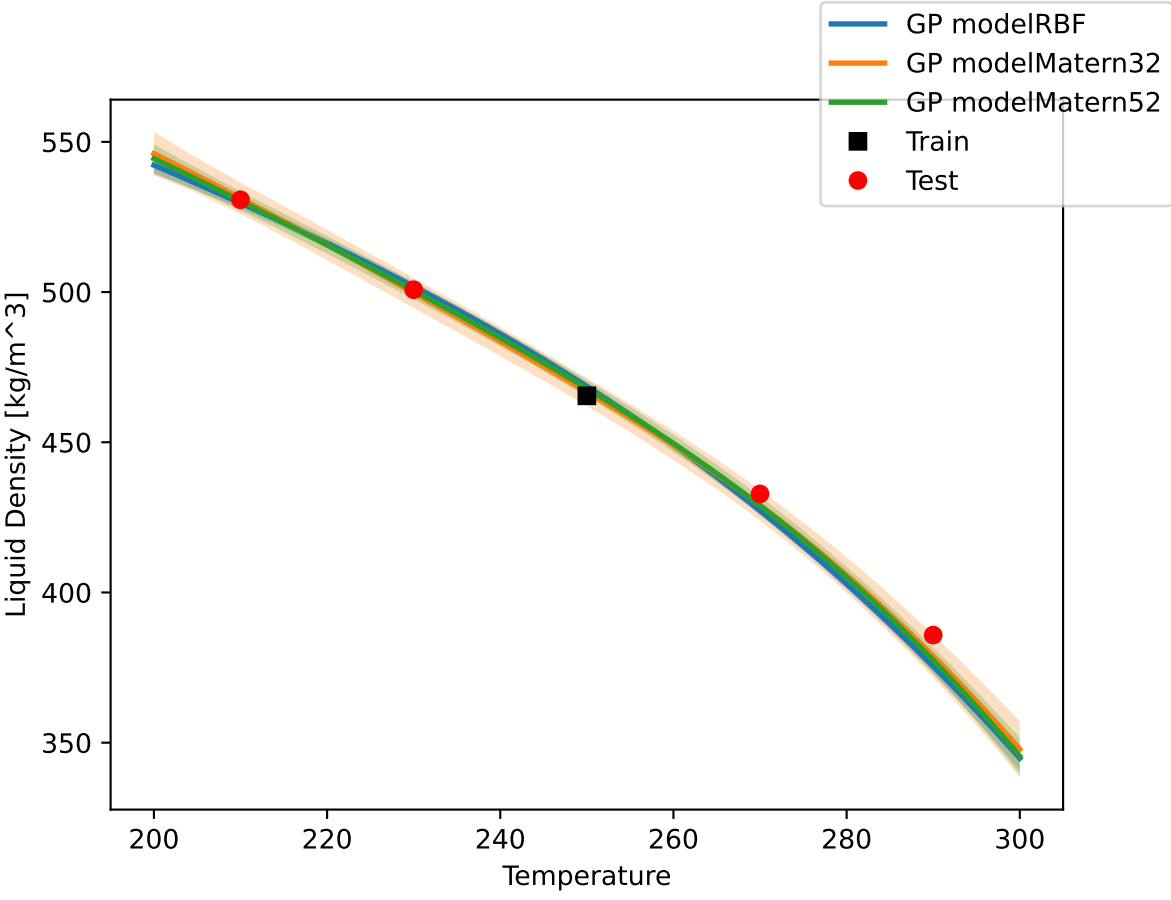
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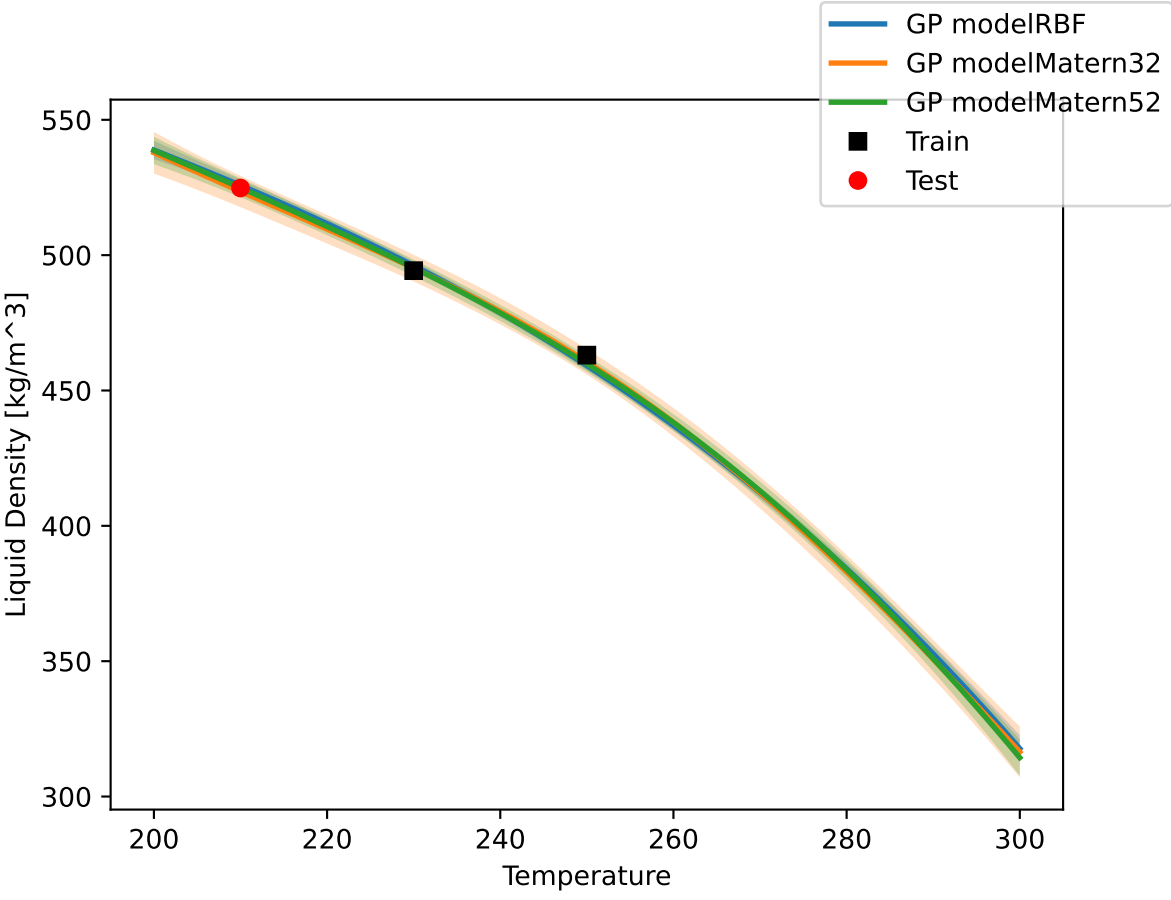
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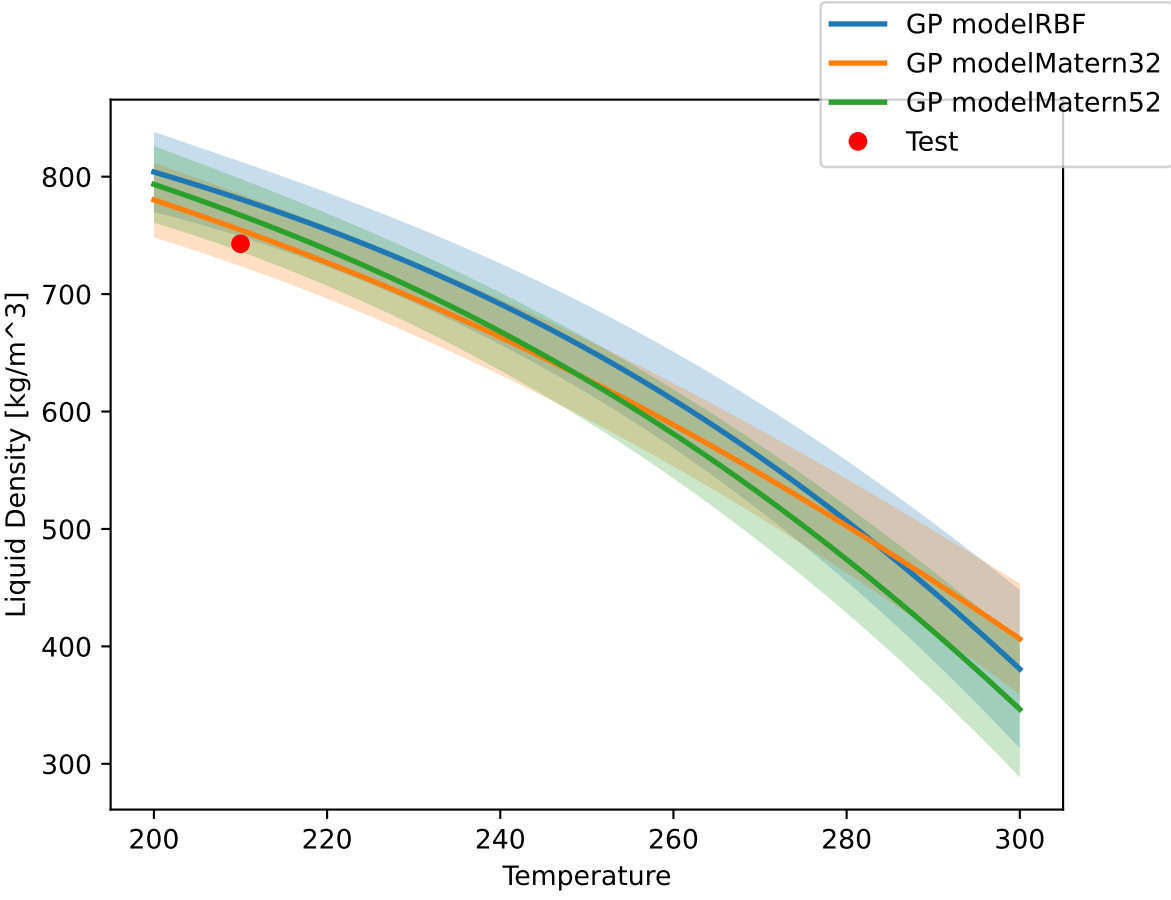
Temperature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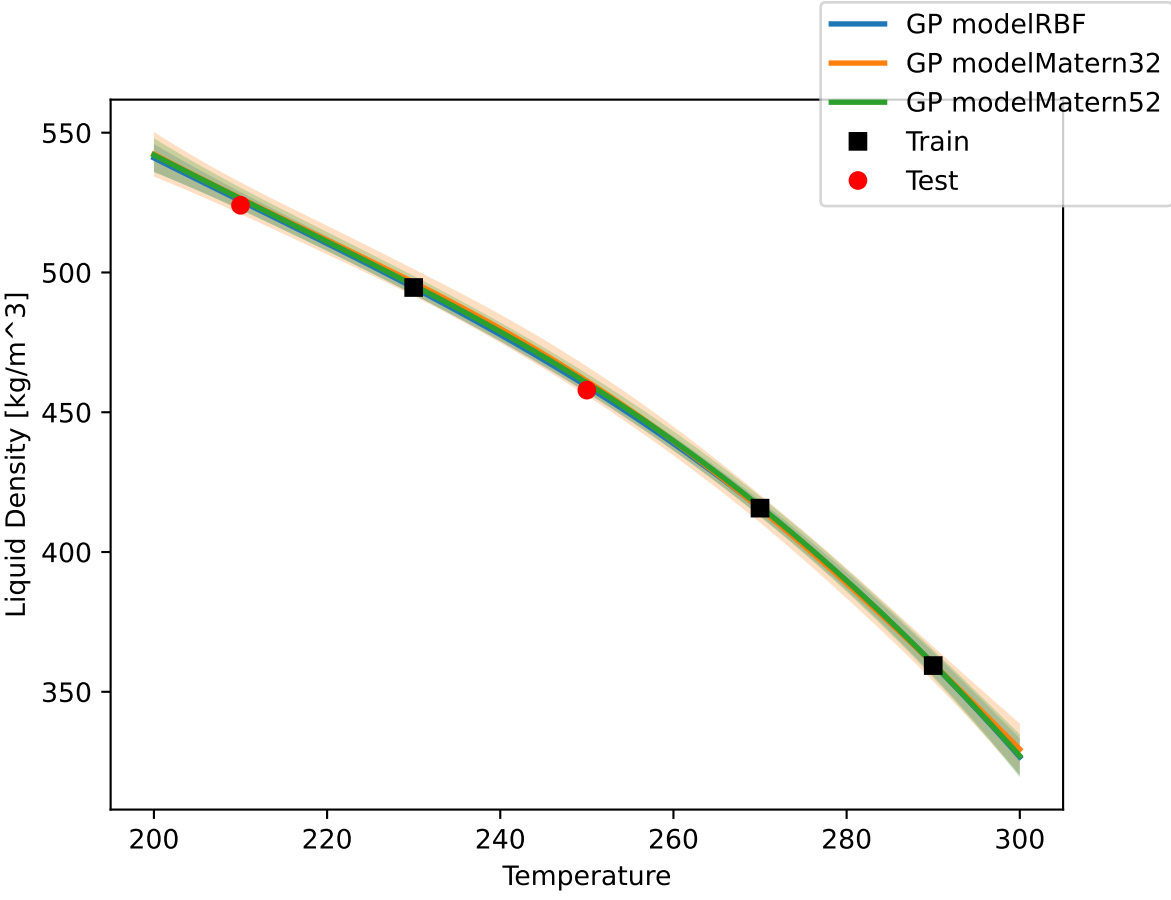
Temperature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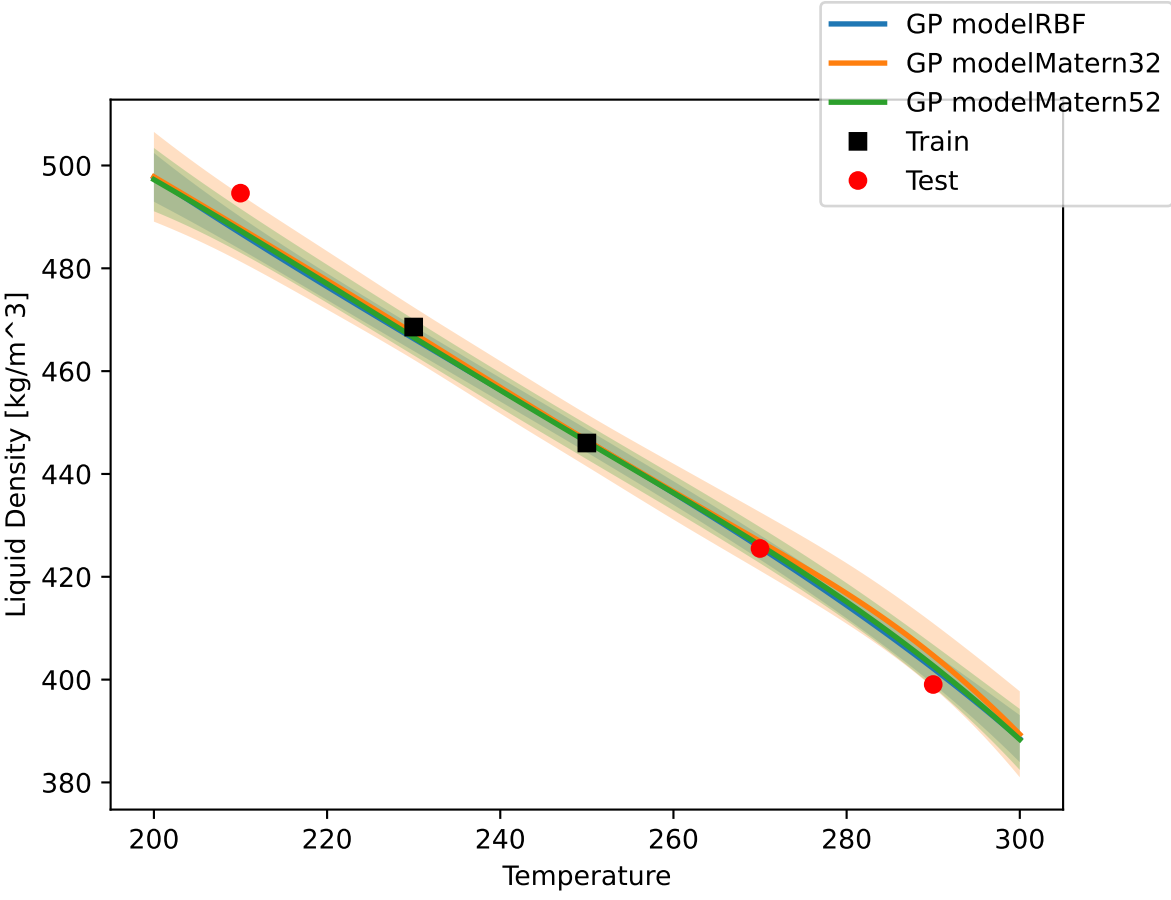
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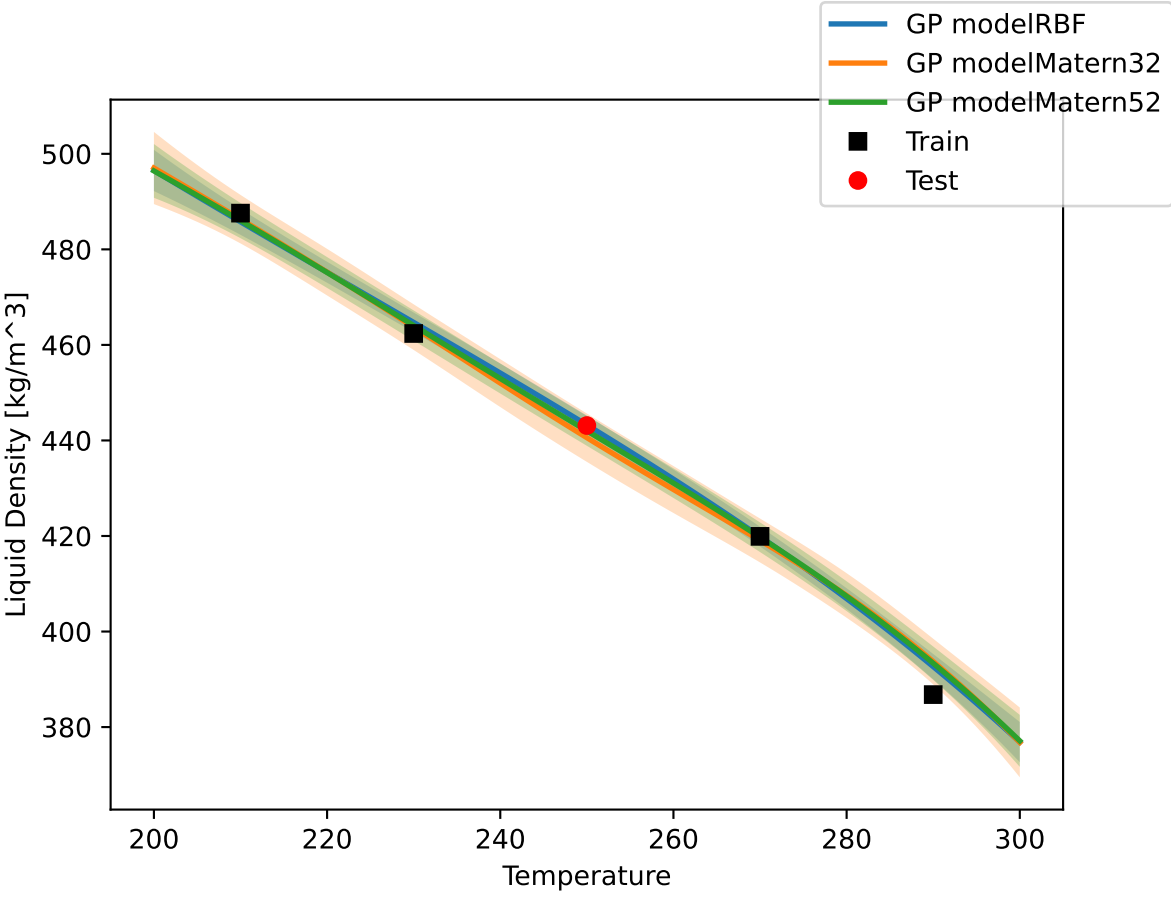
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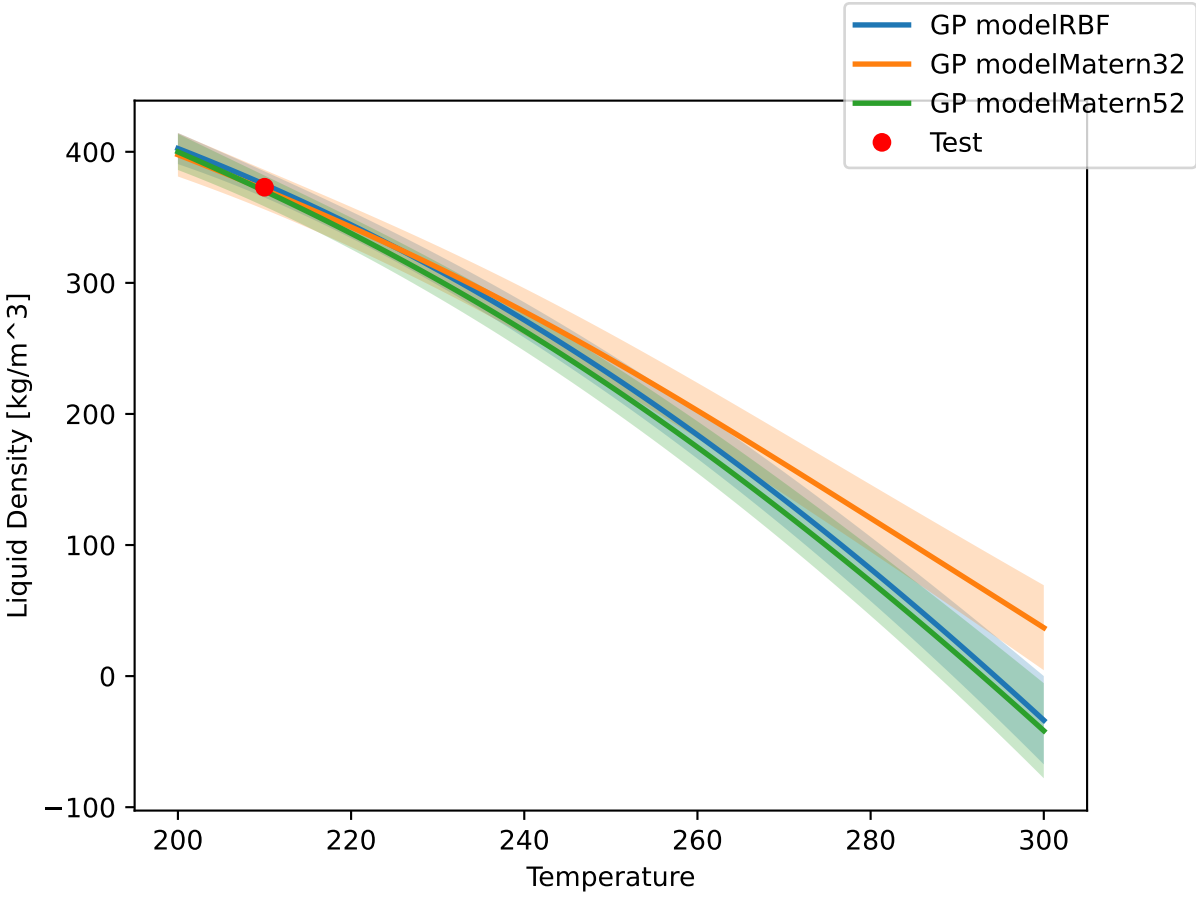
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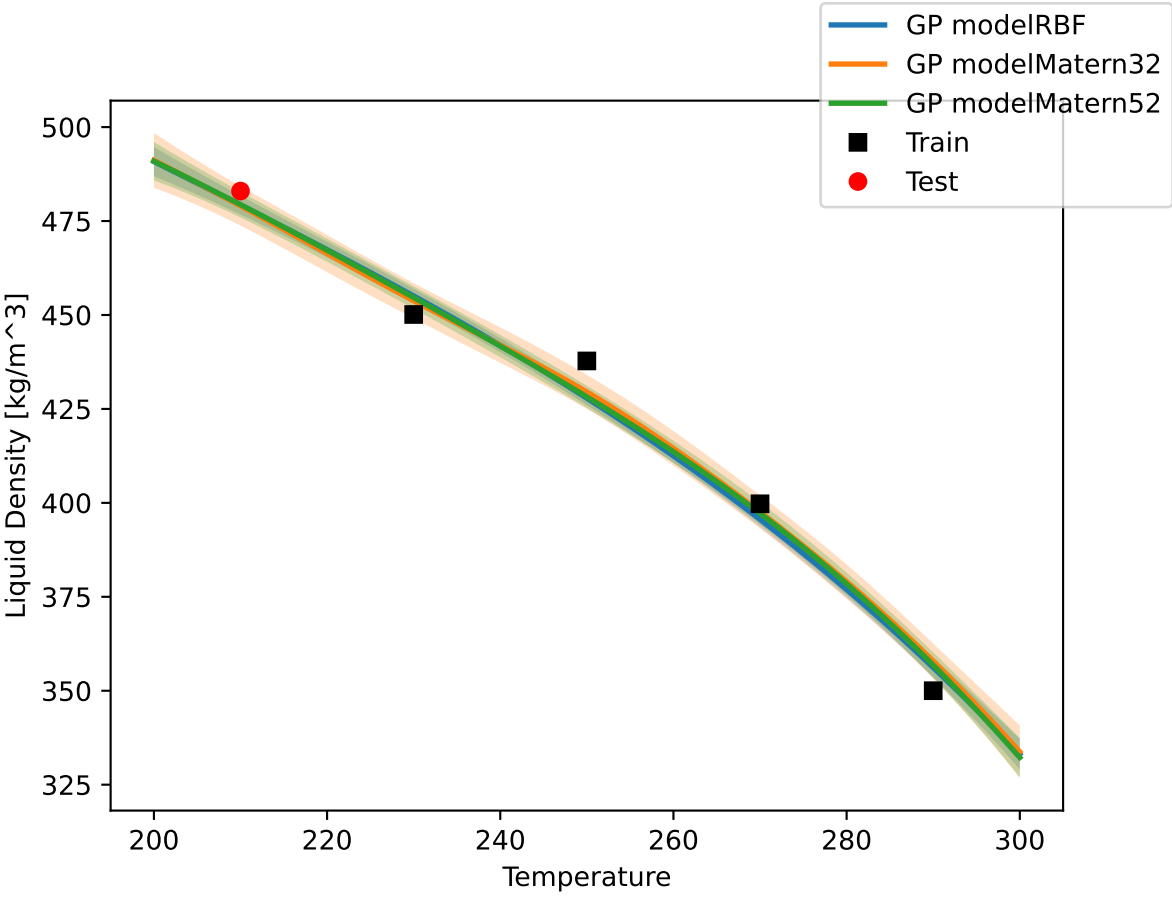
Temperature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Train
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Liquid Density [kg/m^3]
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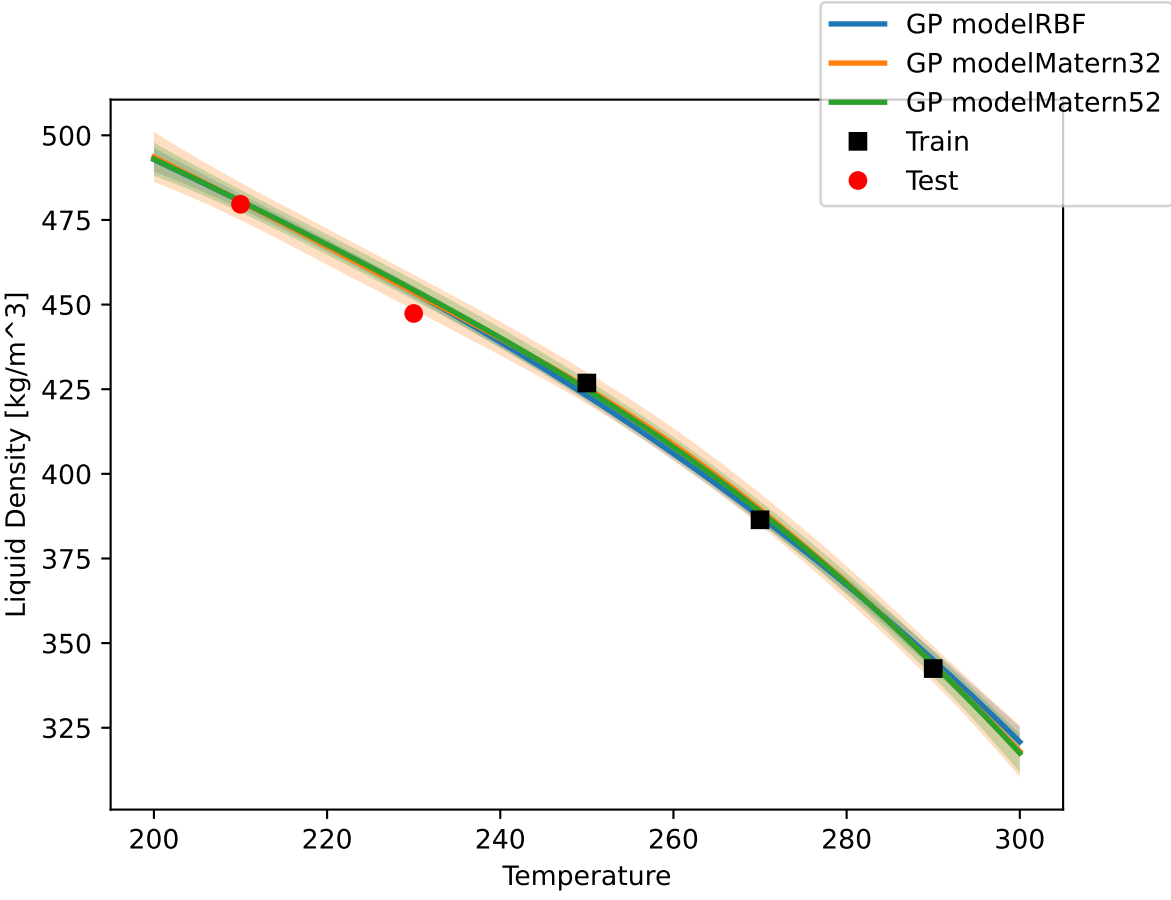
Temperature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Liquid Density [kg/m^3]
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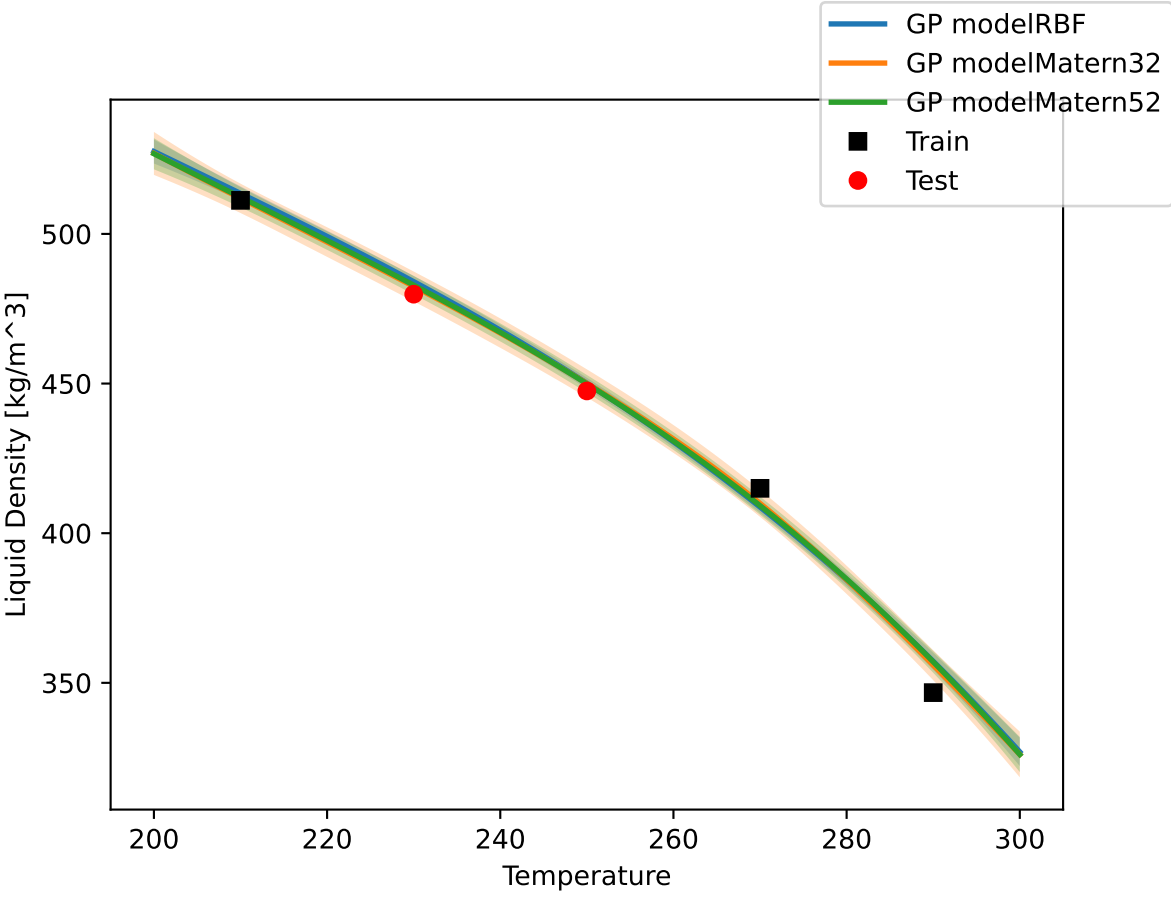
Temperature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Liquid Density [kg/m^3]
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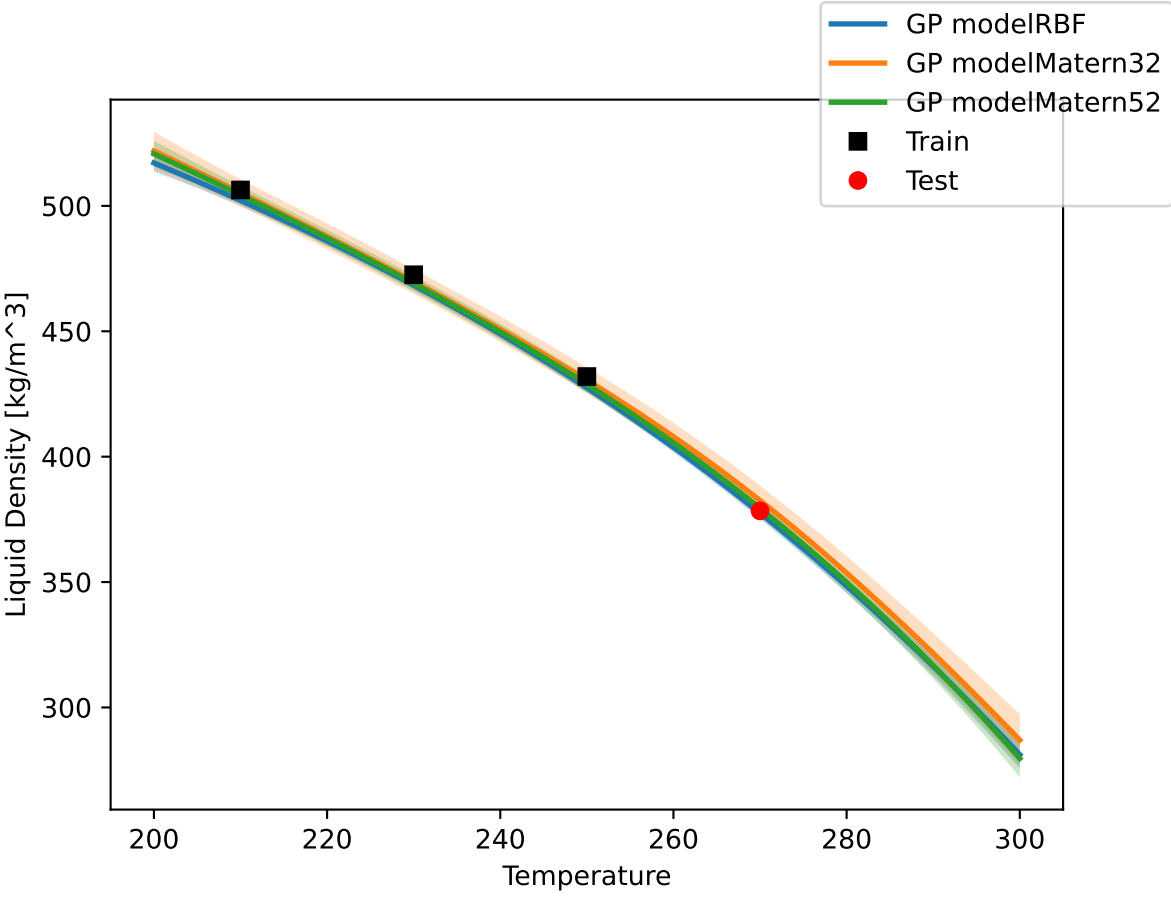
Temperature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GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
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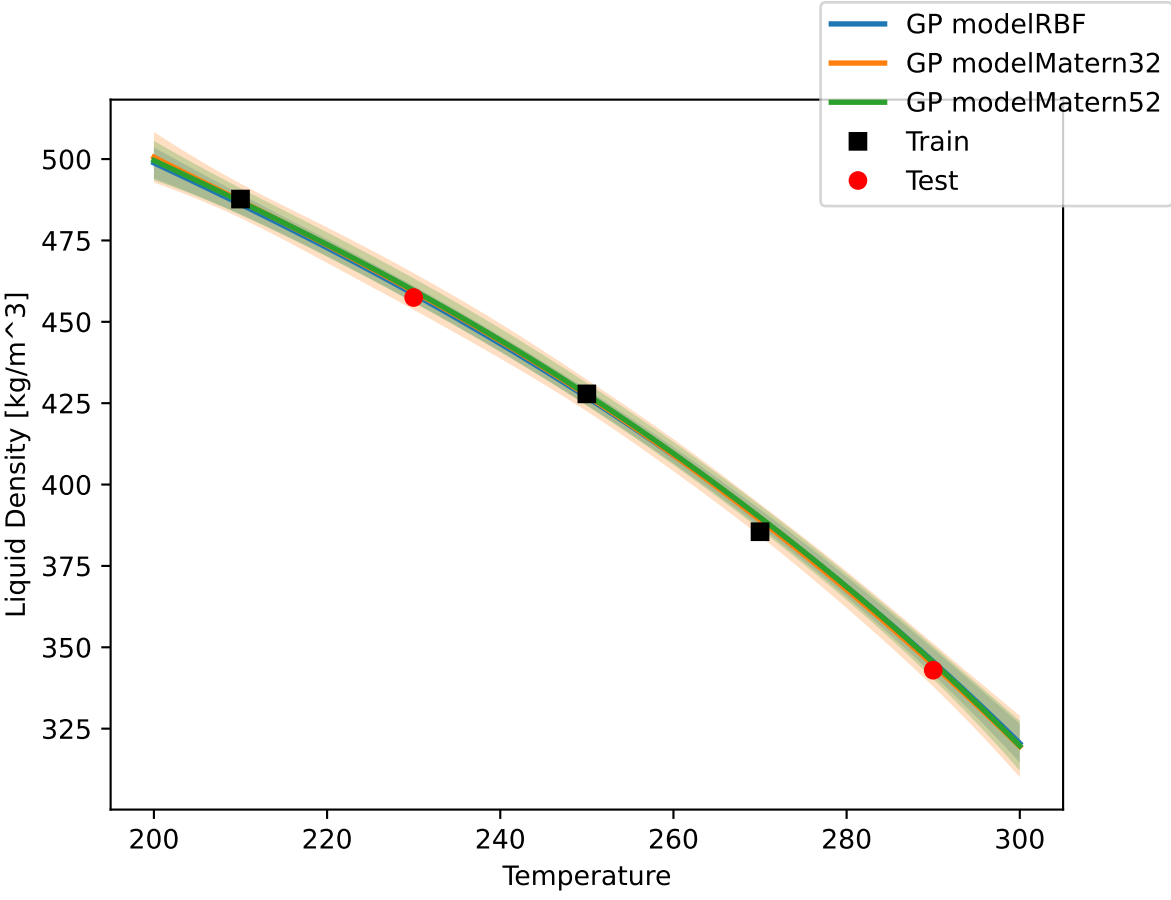
Temperature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Train
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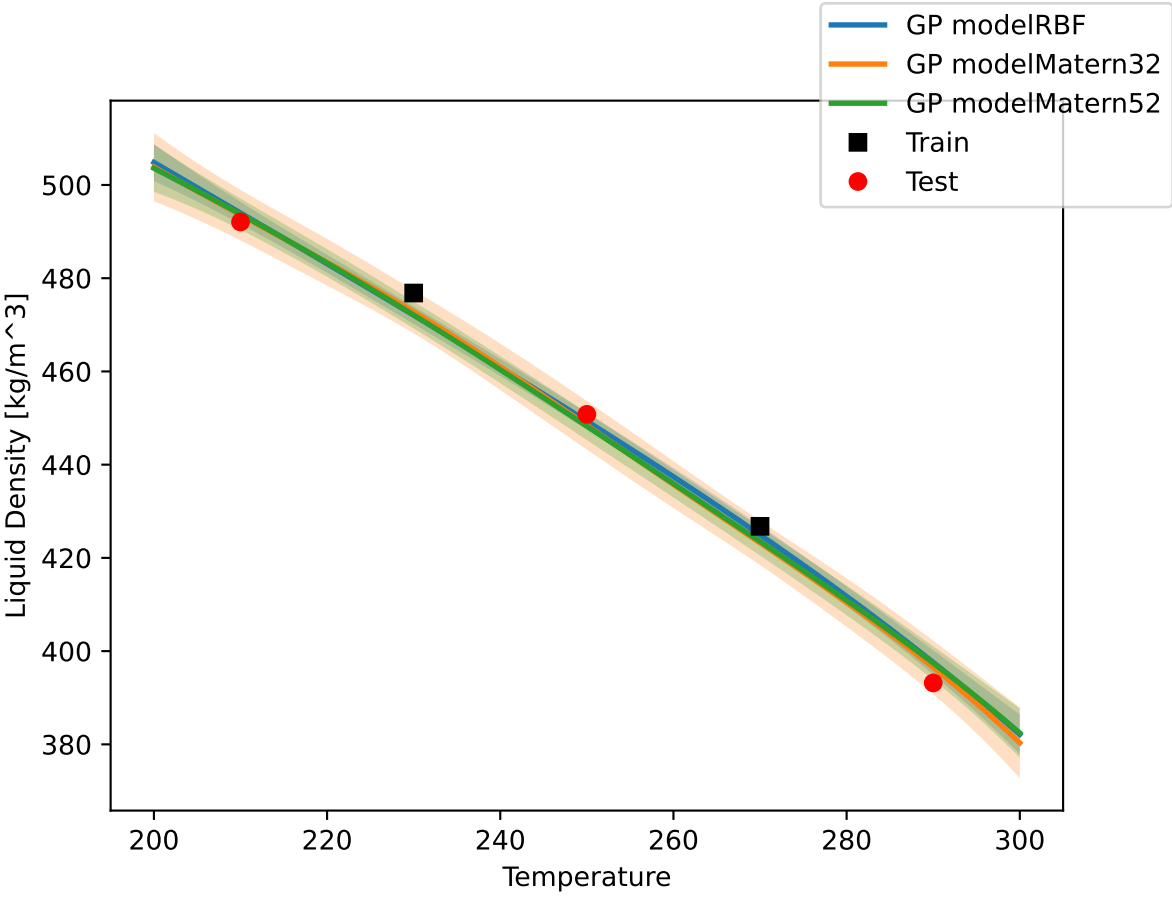
Temperature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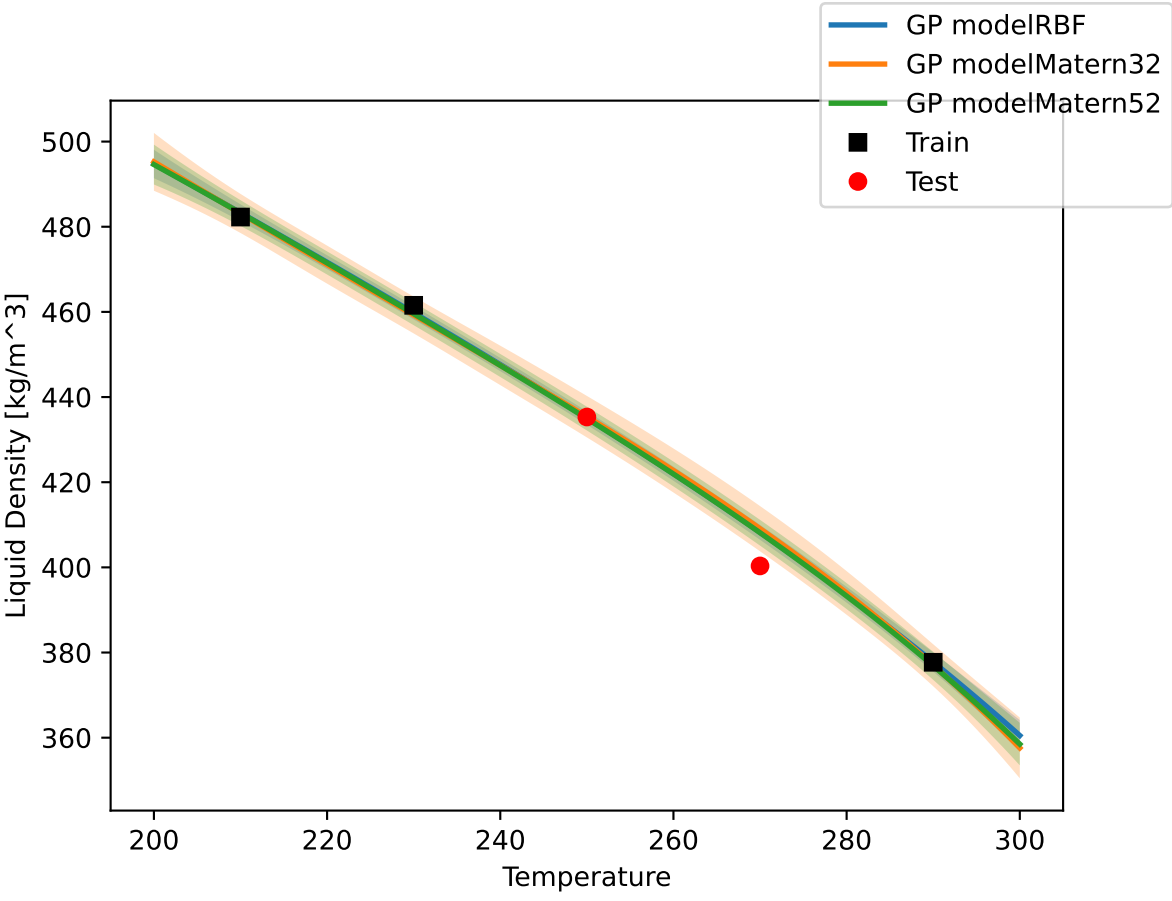
Temperature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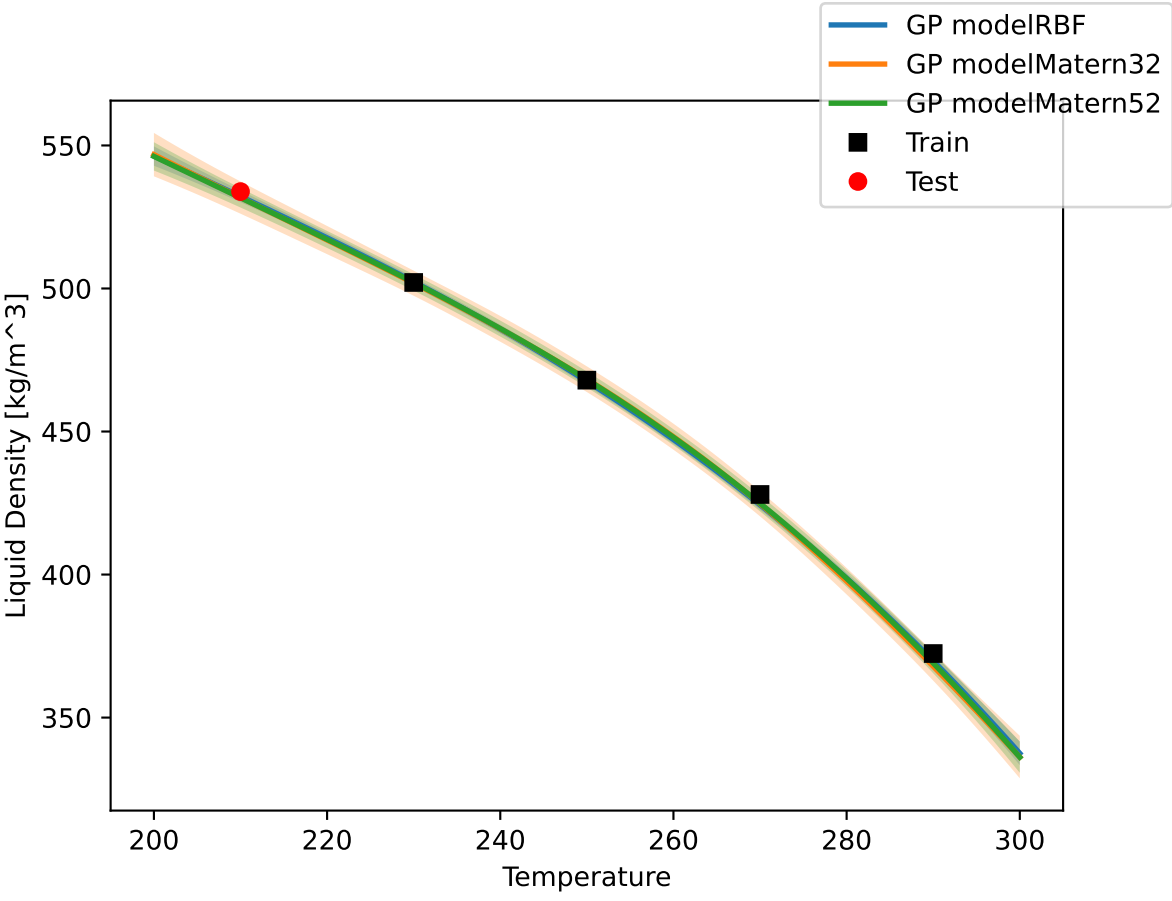
Temperature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Liquid Density [kg/m^3]
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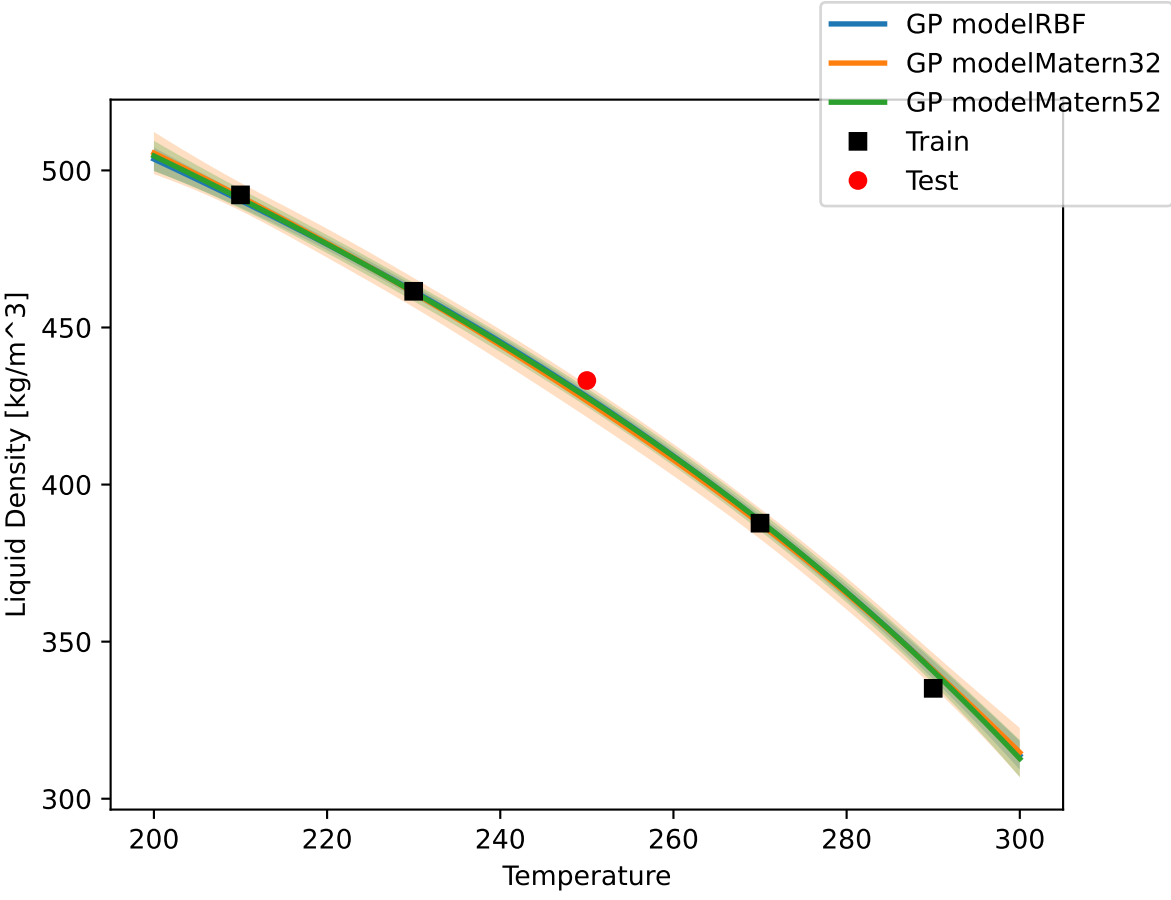
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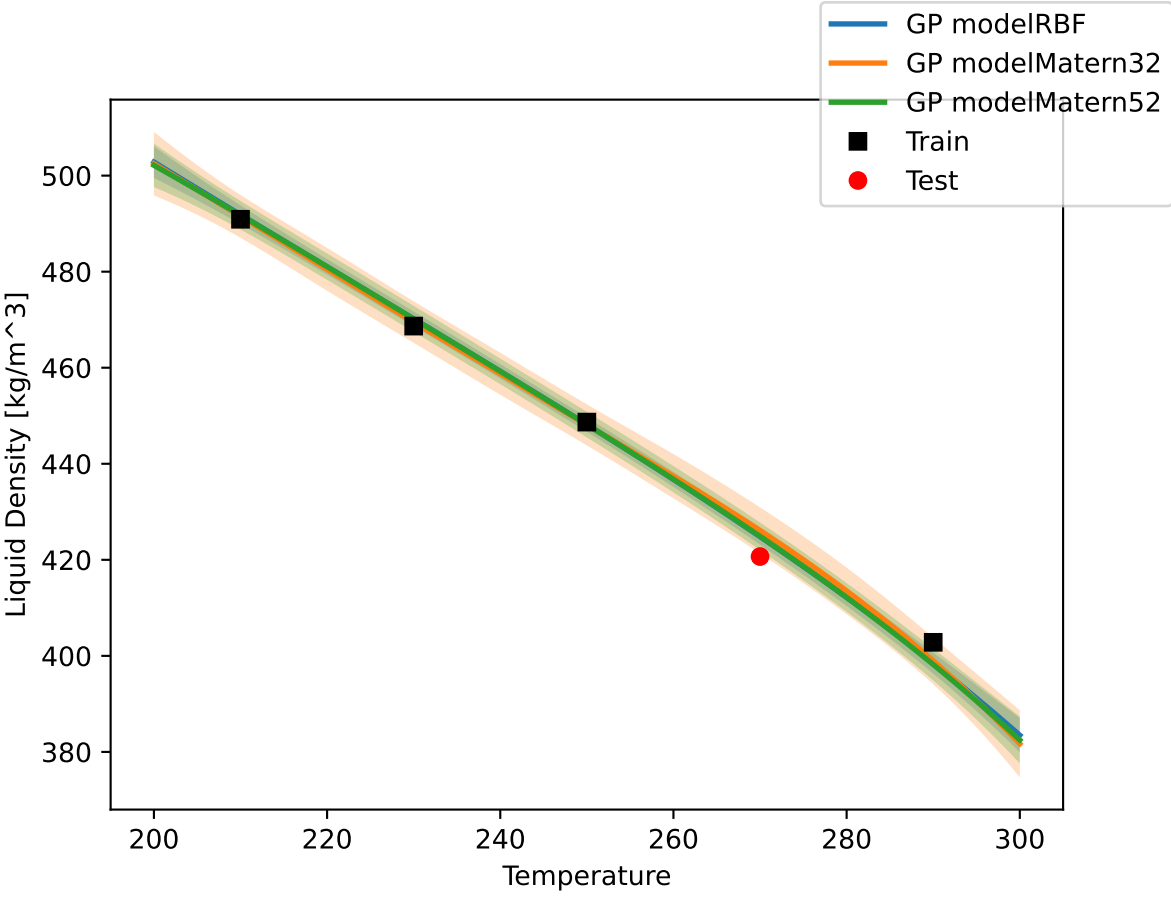
Temperature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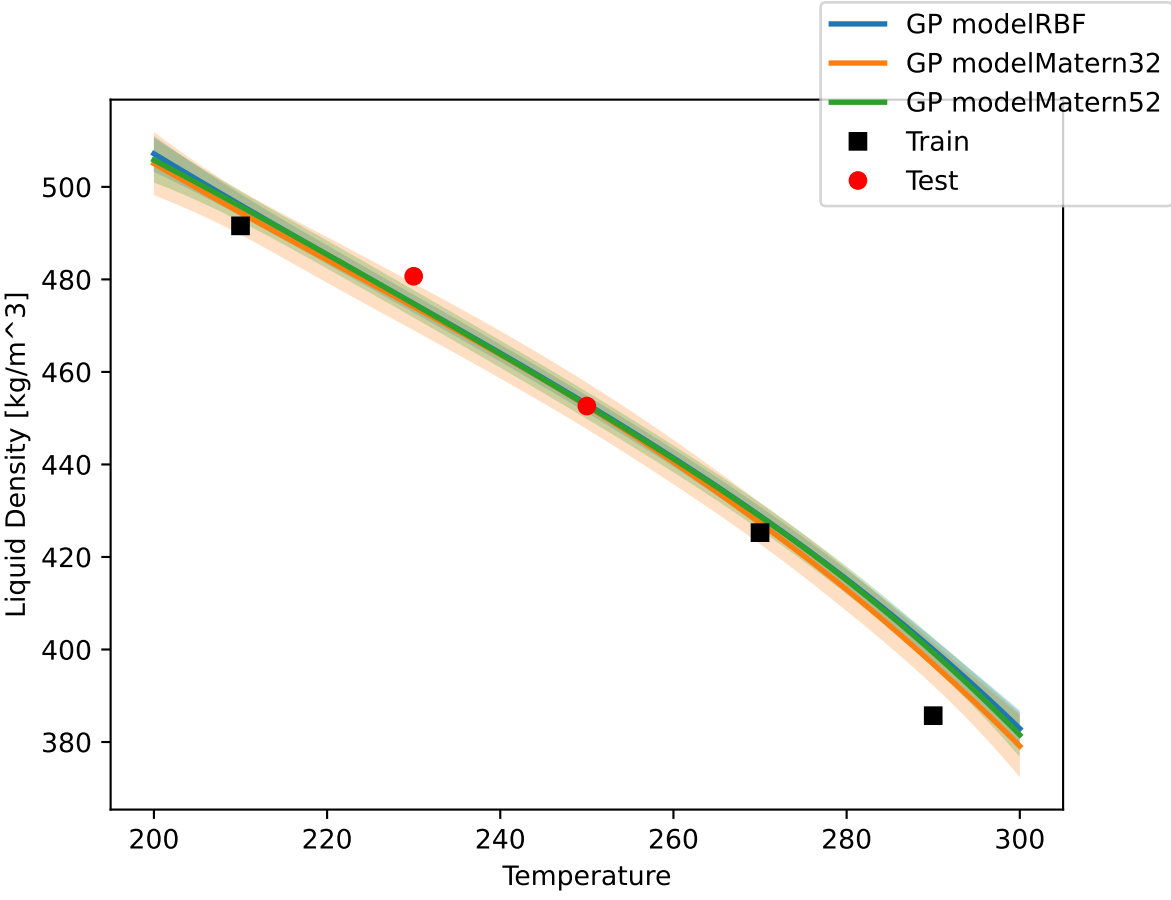
Temperature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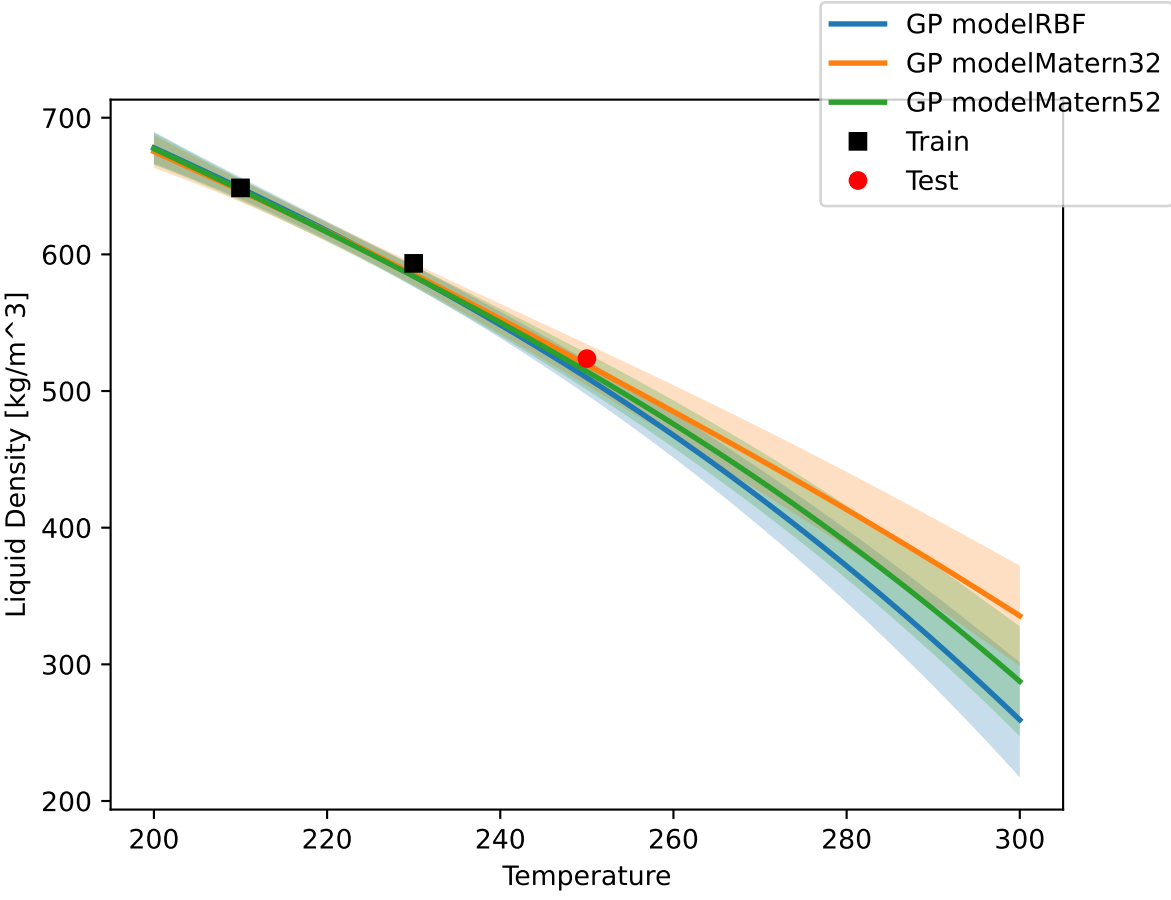
Temperature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Temperature
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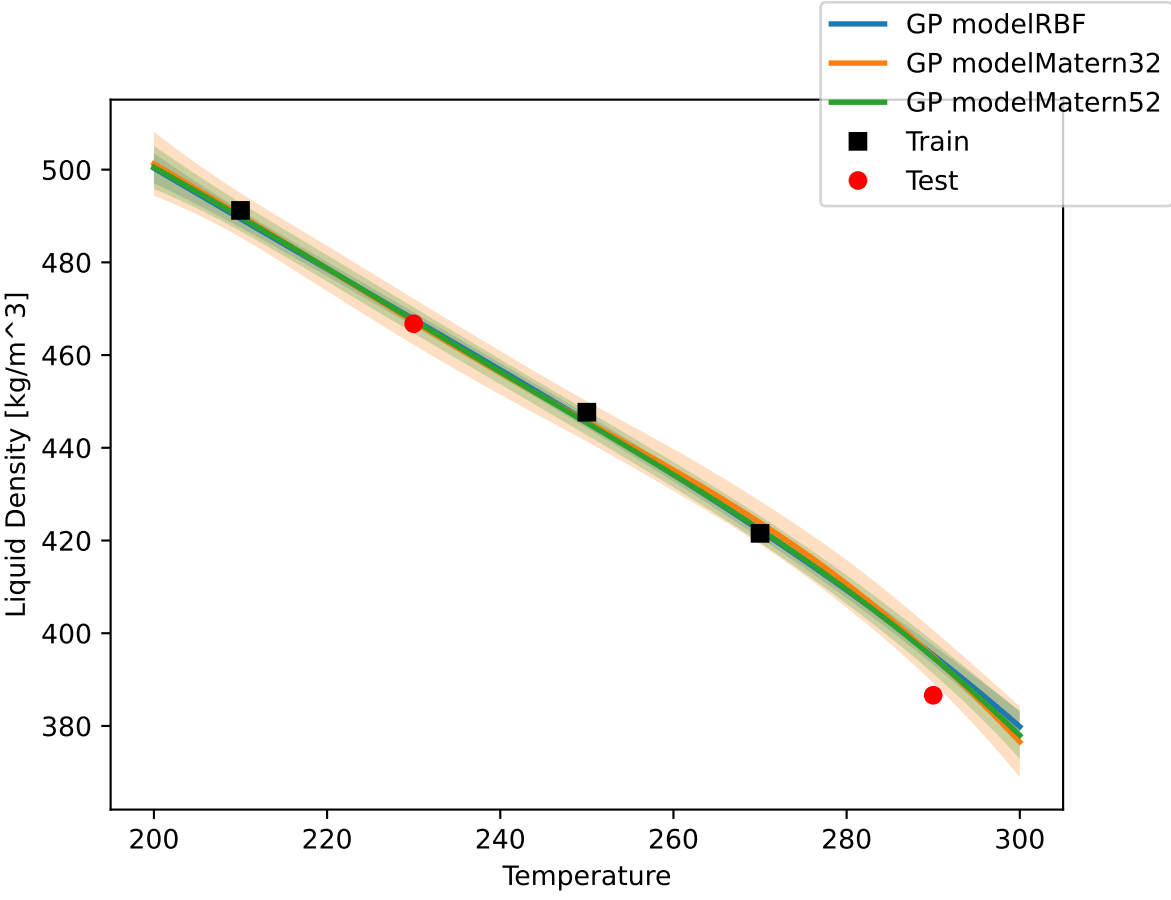
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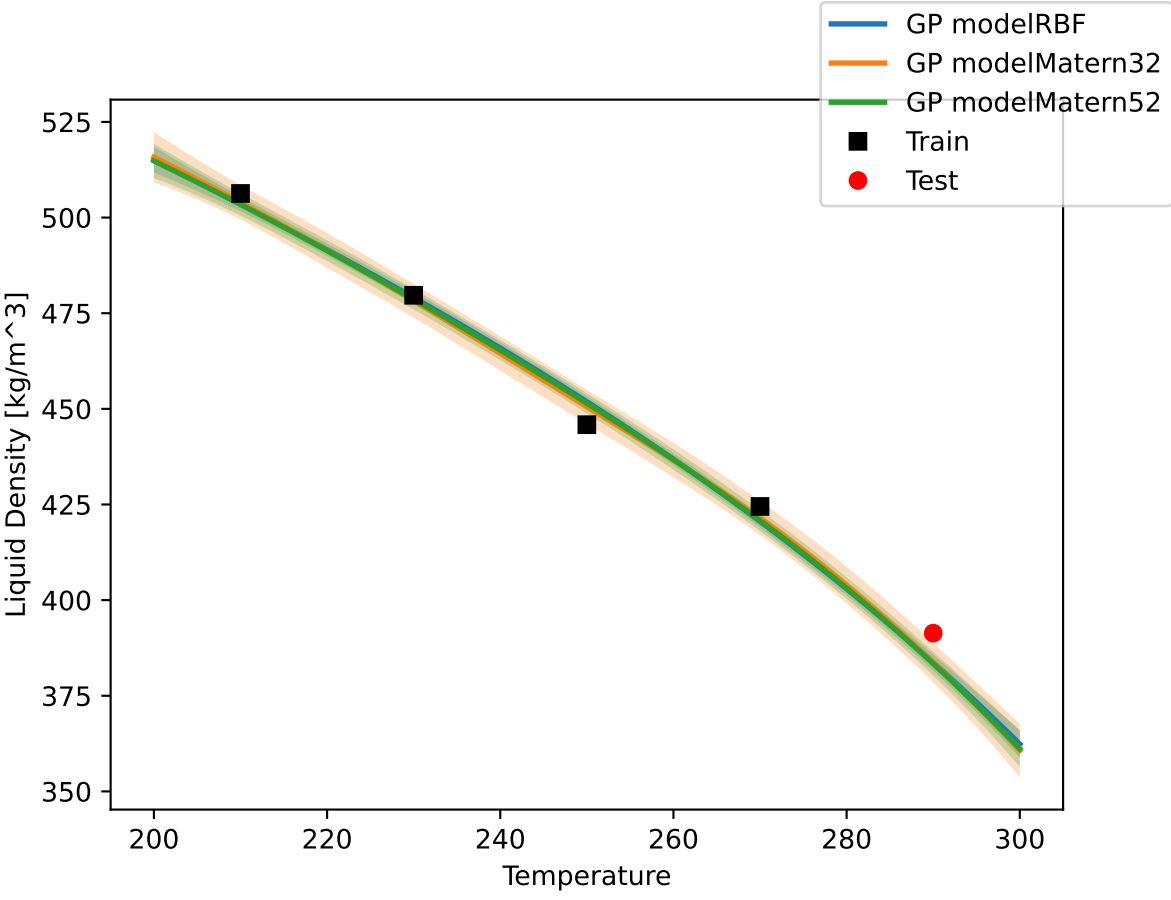
Temperature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Train
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Liquid Density [kg/m^3]
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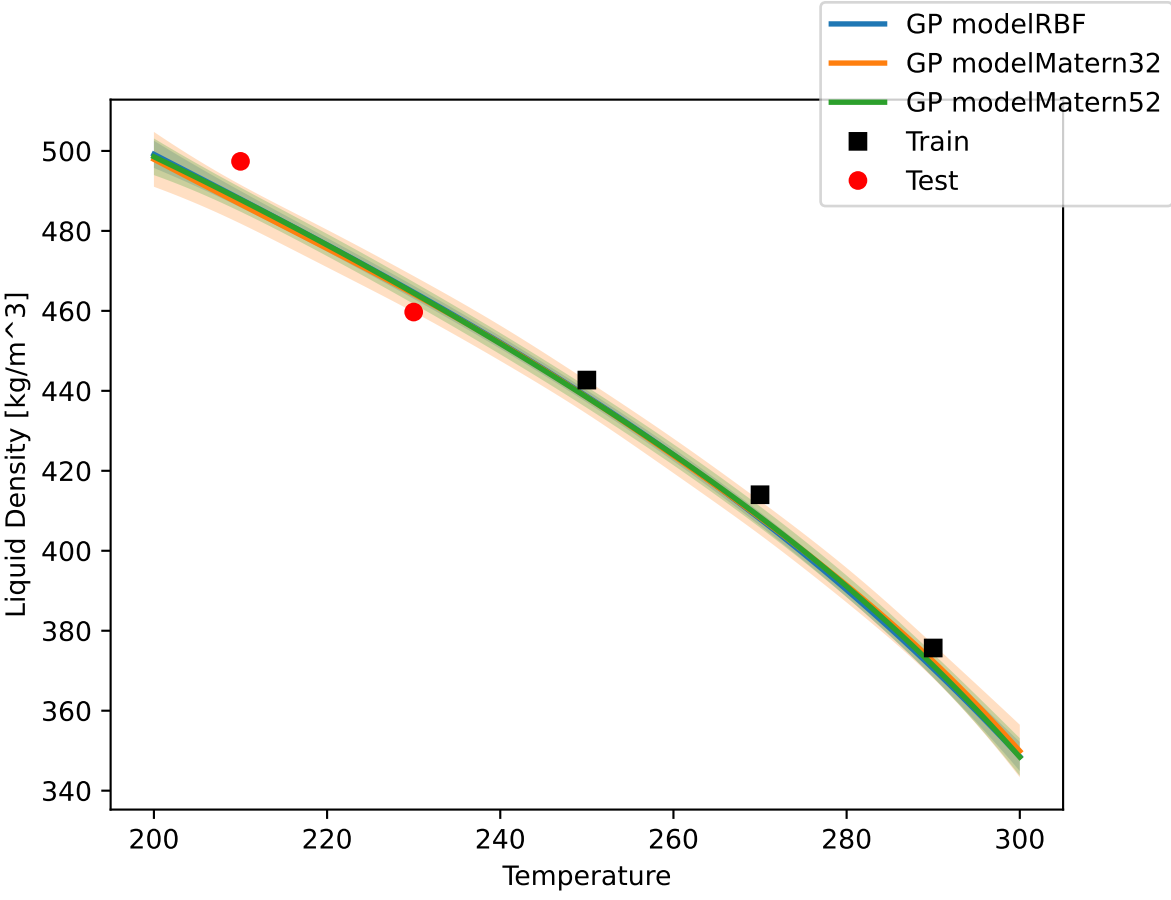
Temperature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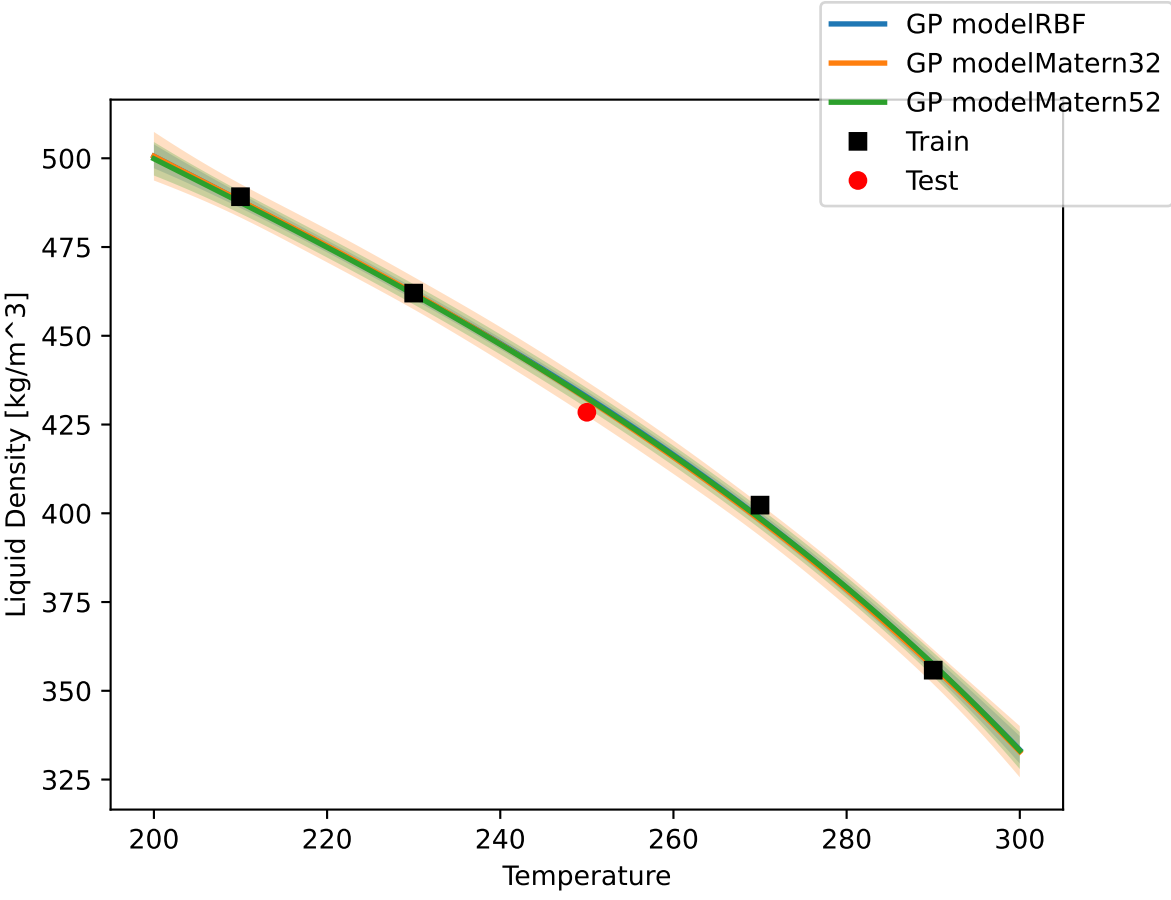
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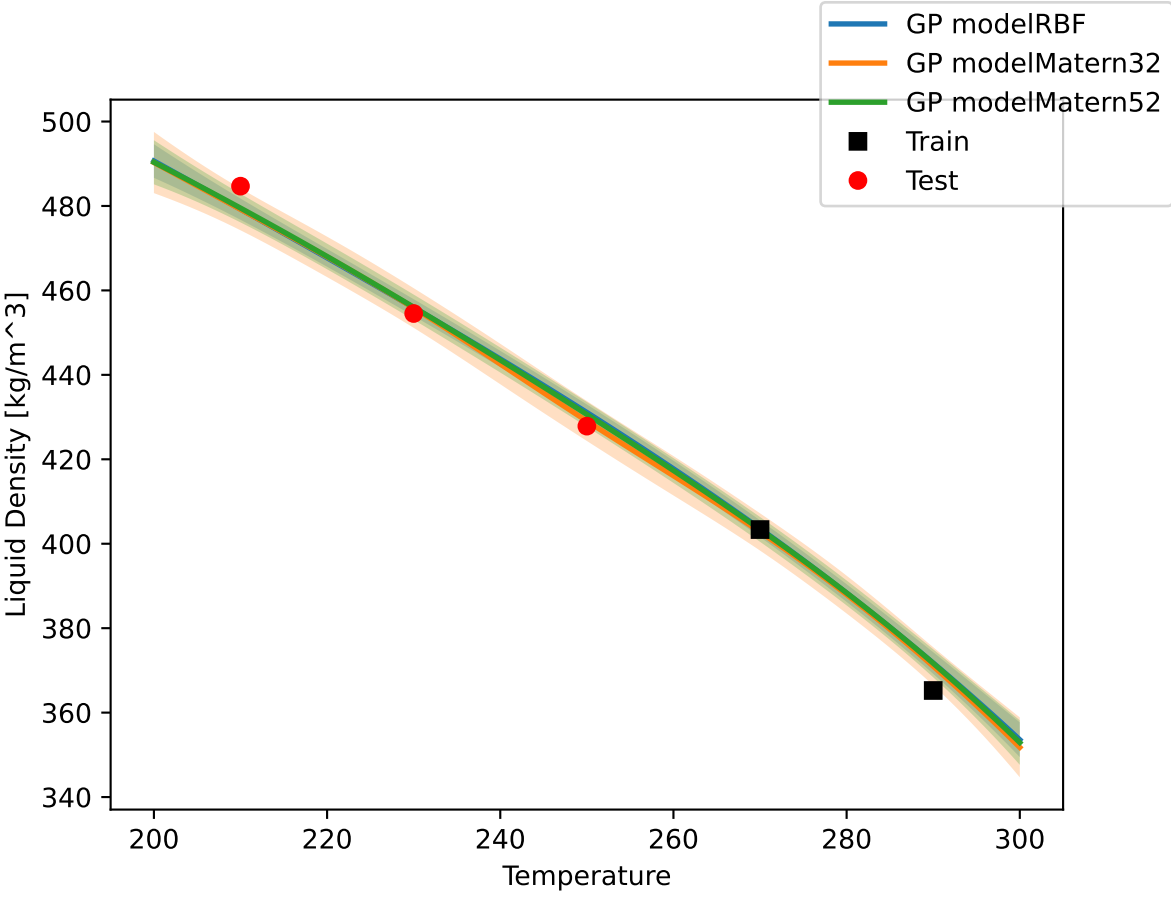
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Temperature
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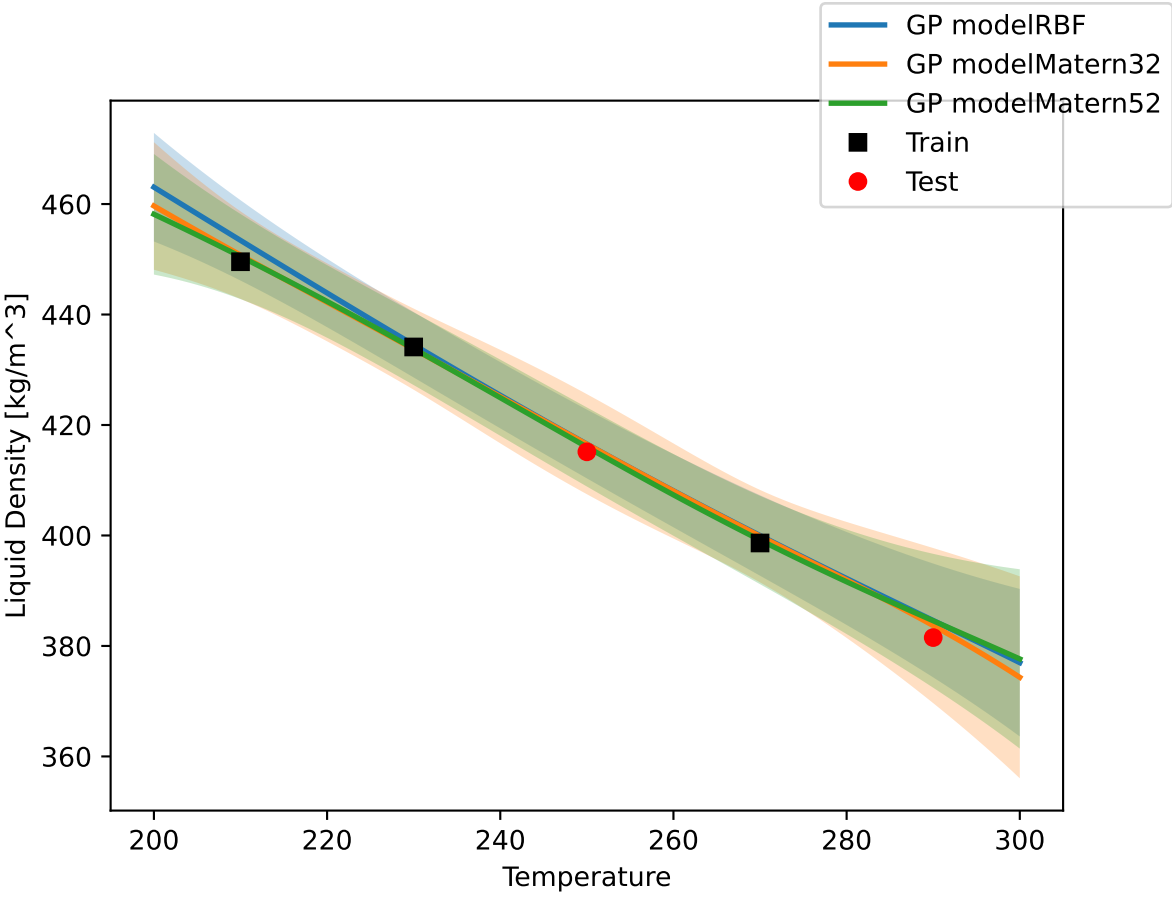
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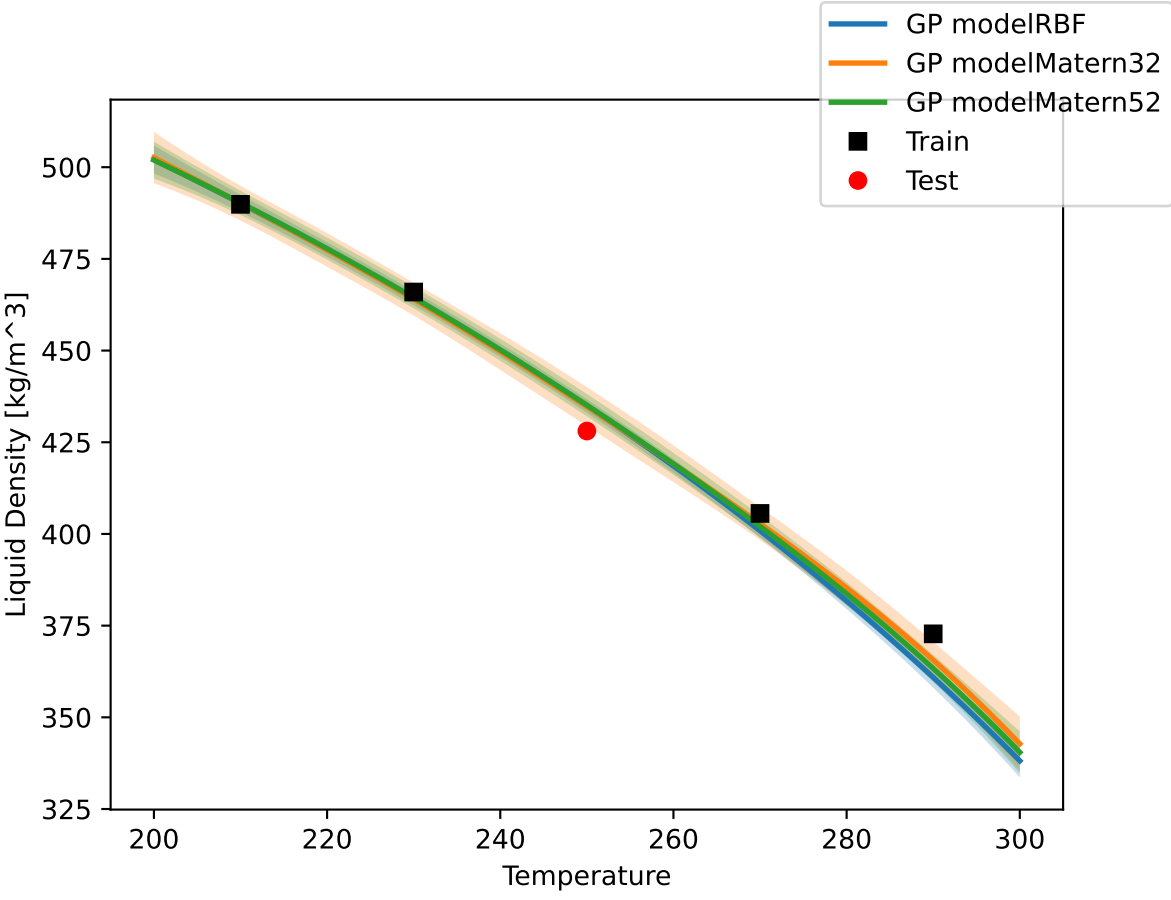
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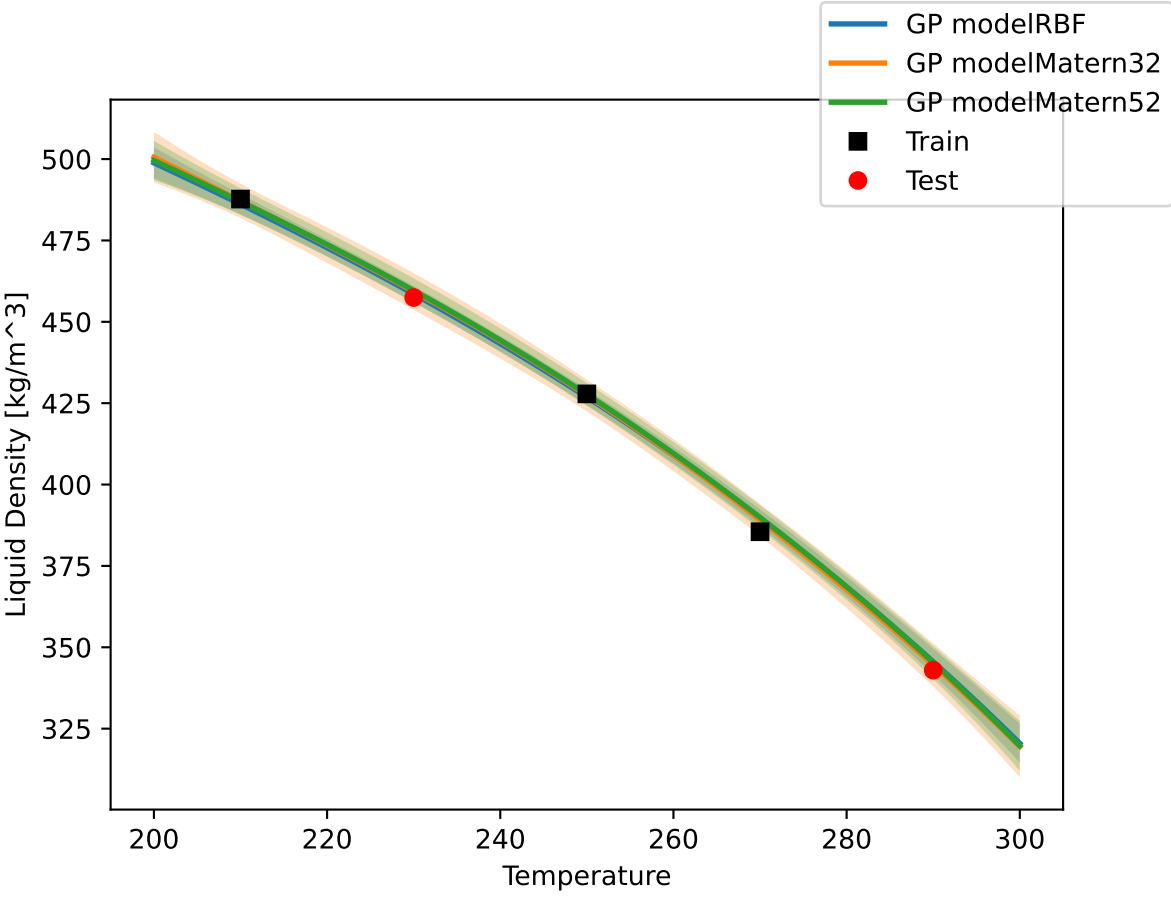
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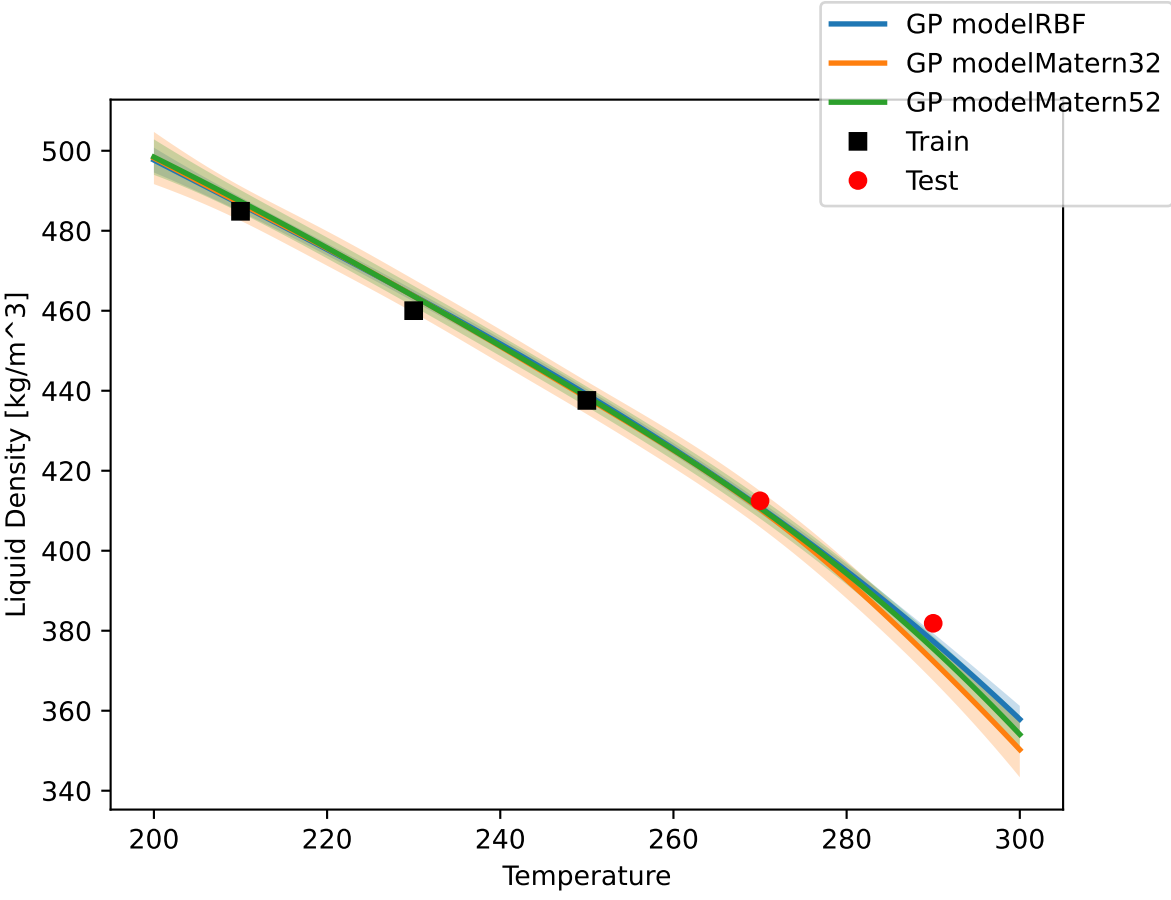
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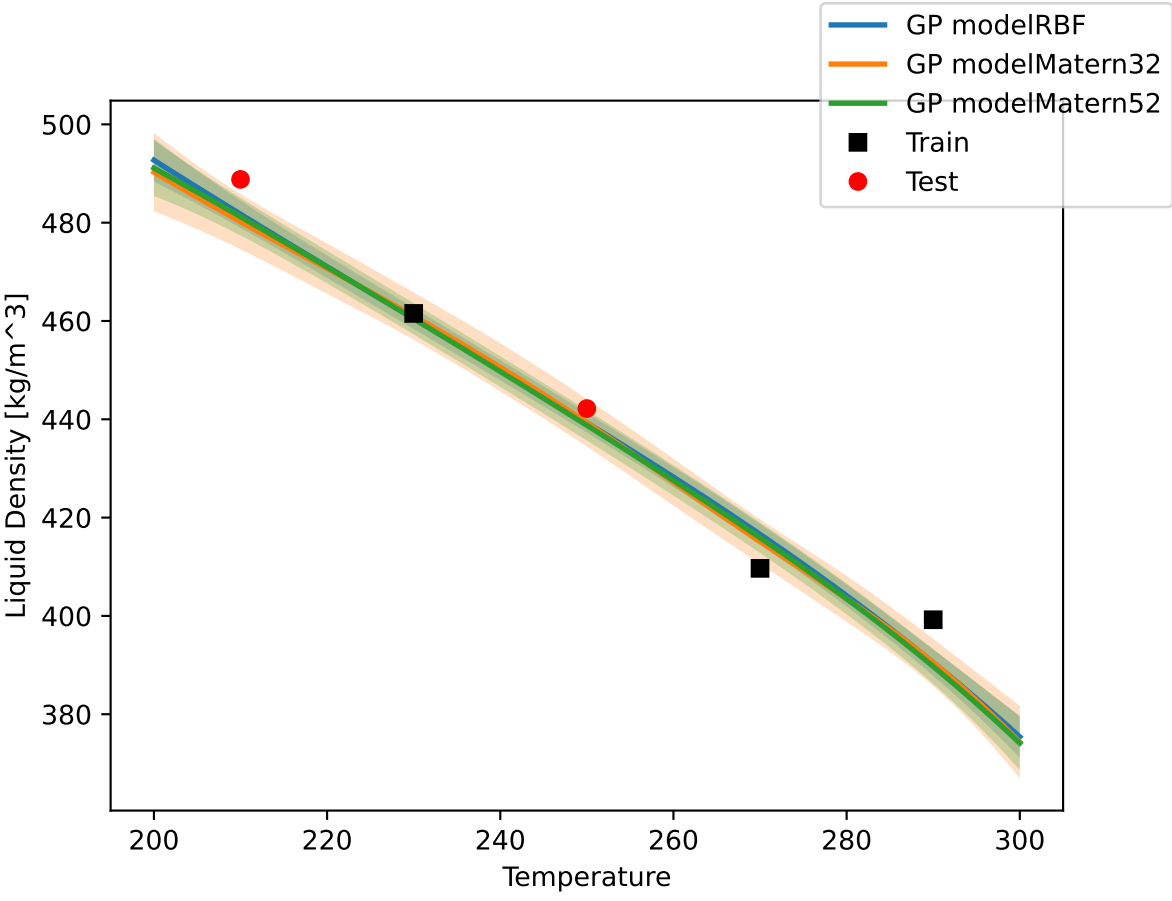
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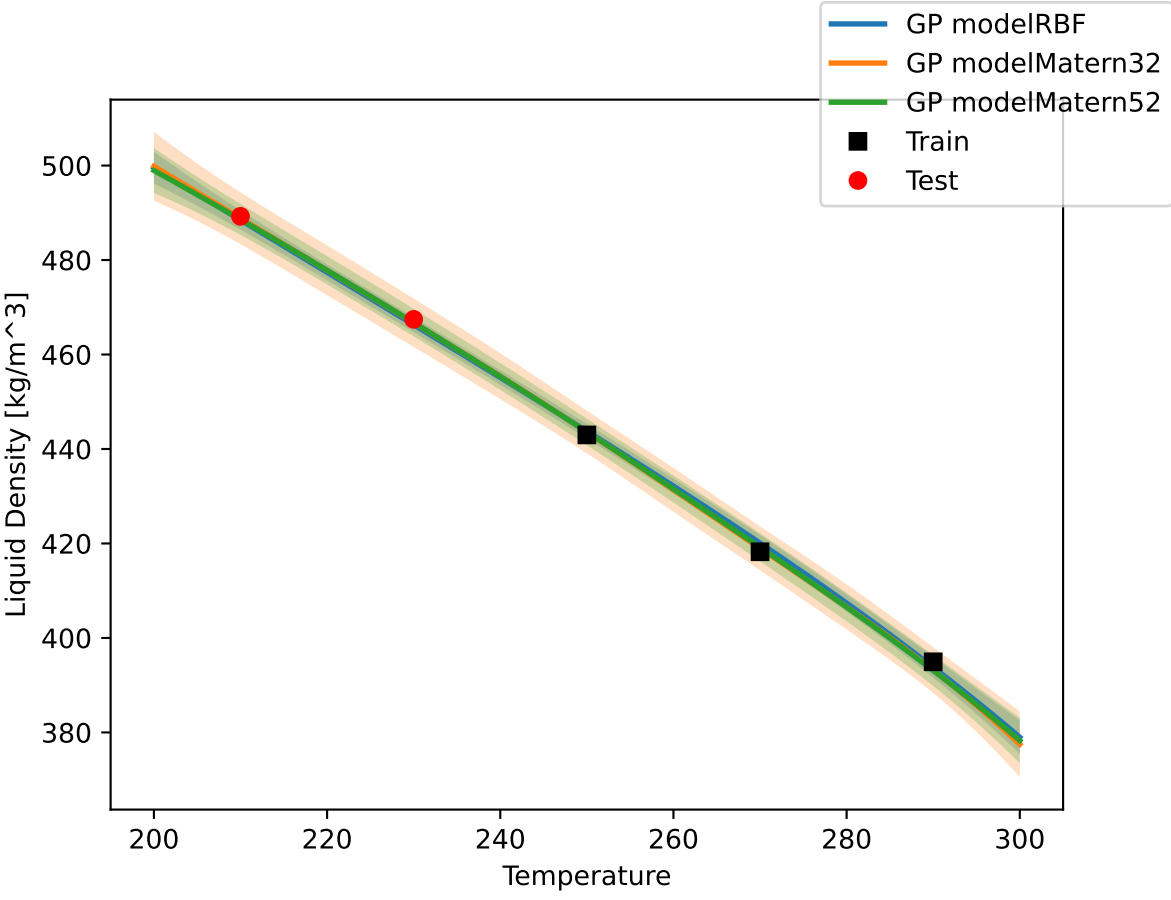
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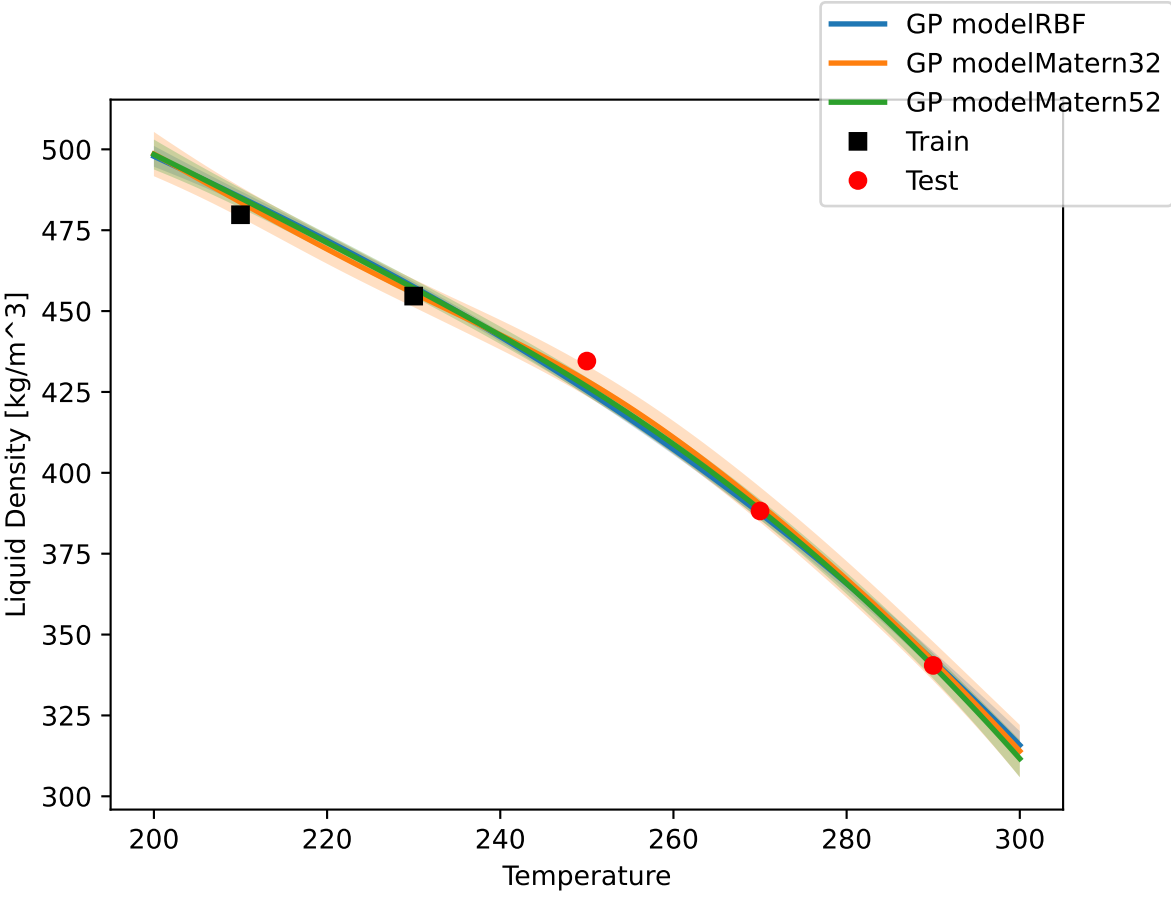
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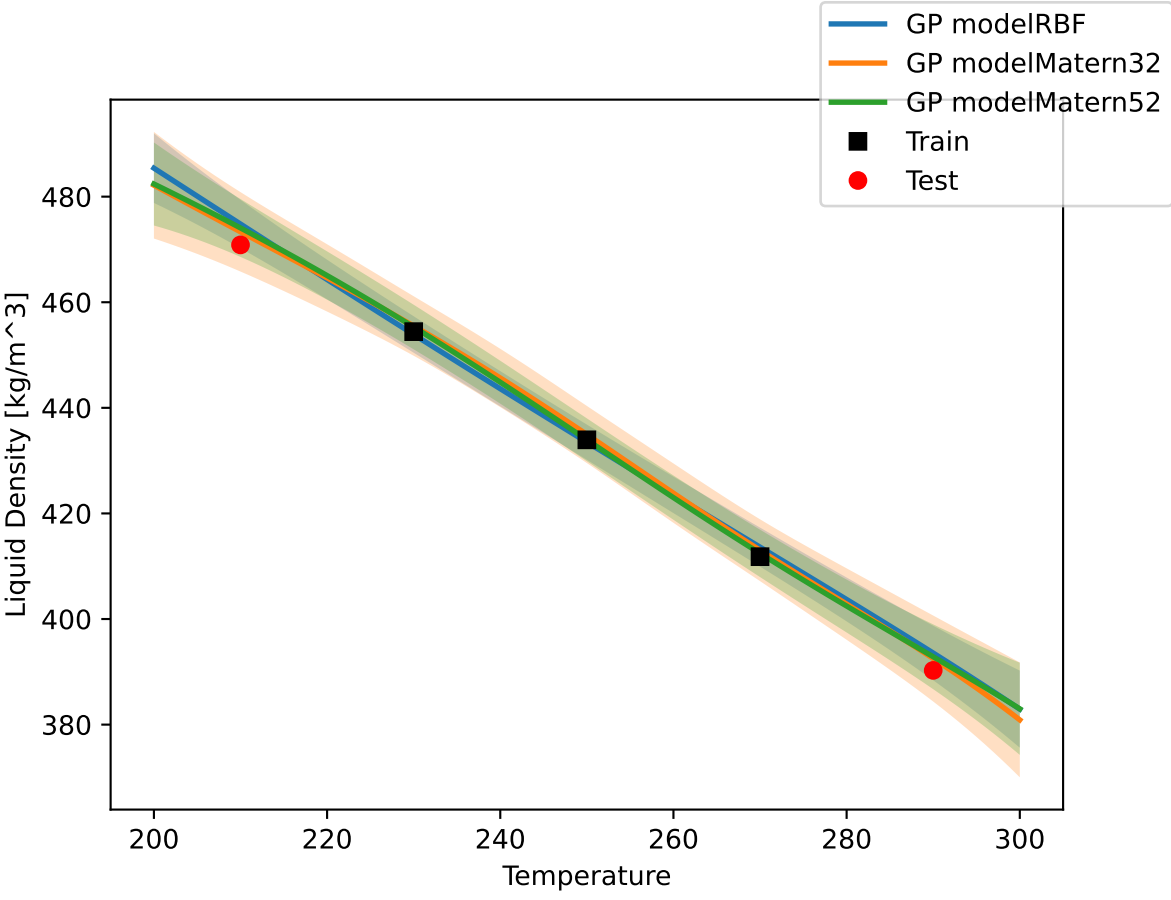
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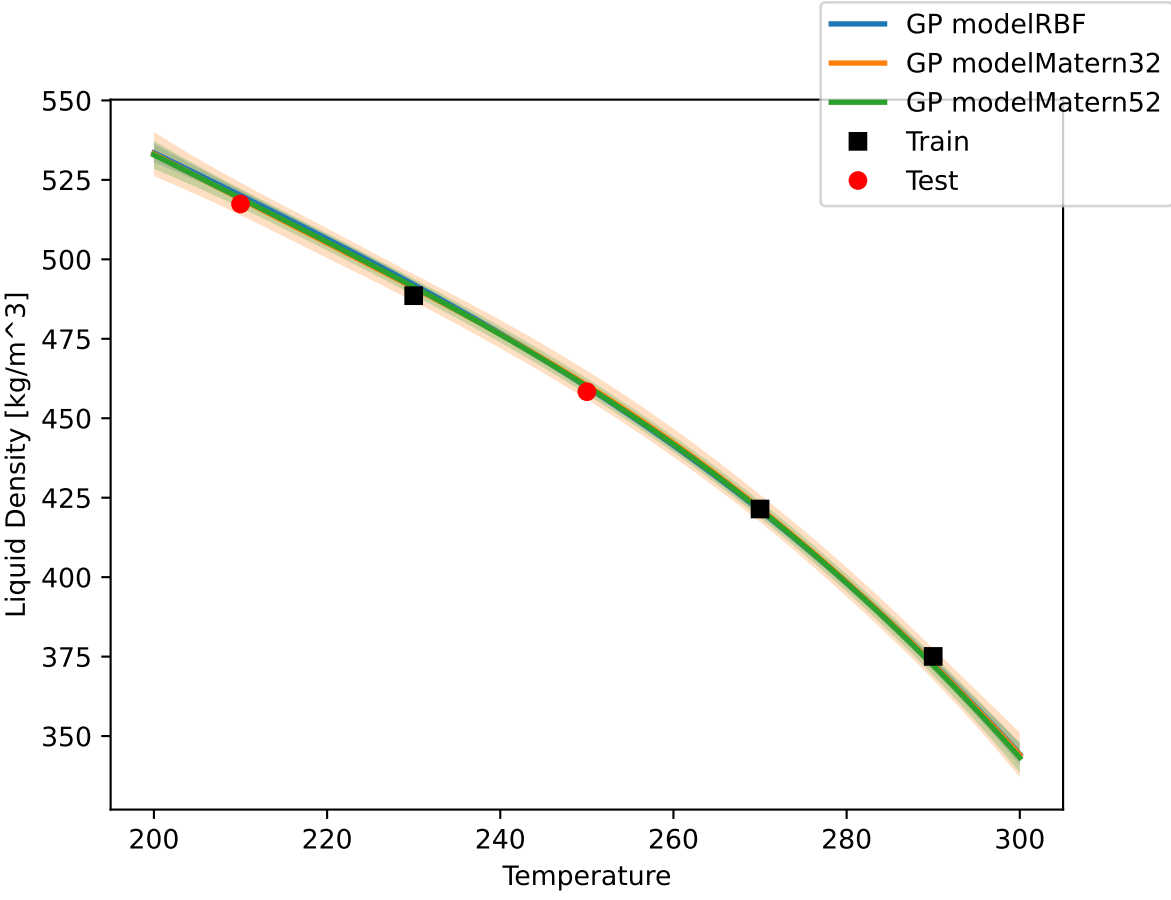
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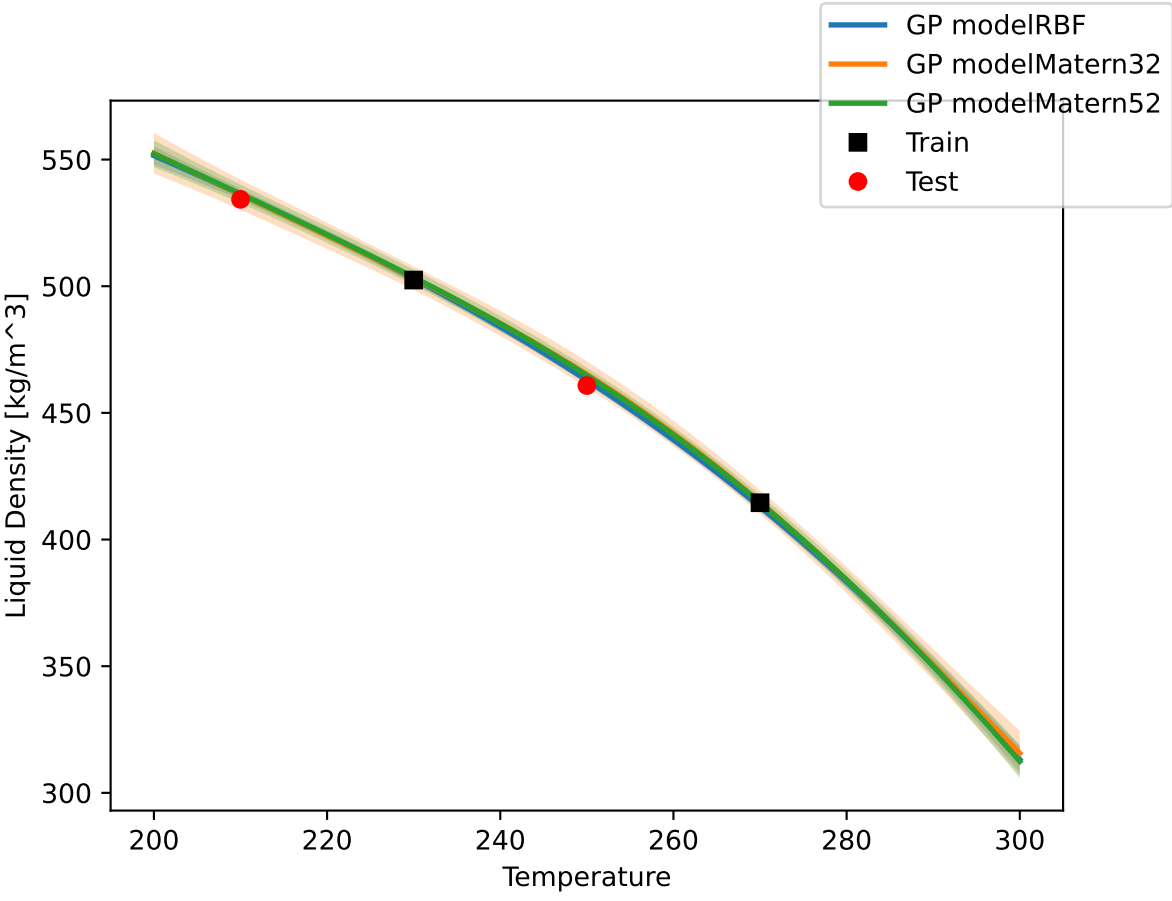
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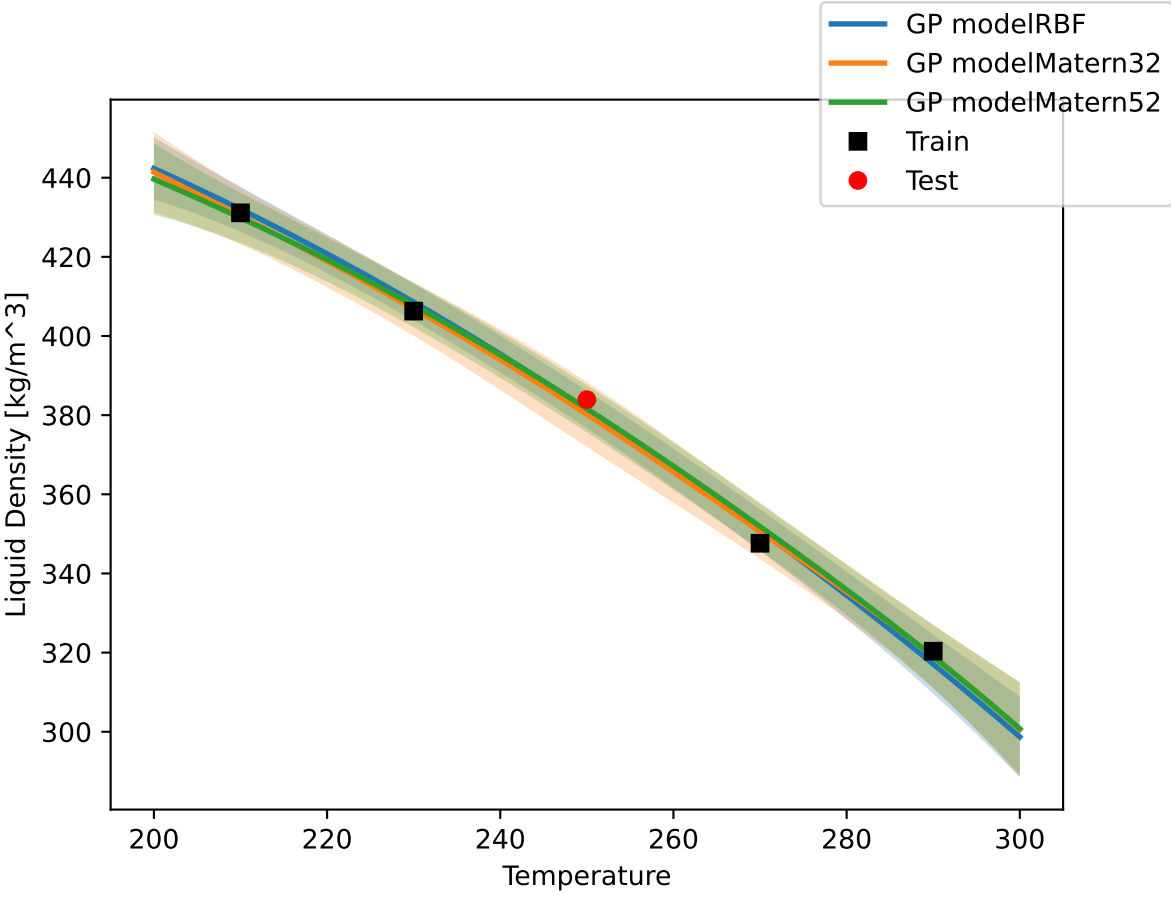
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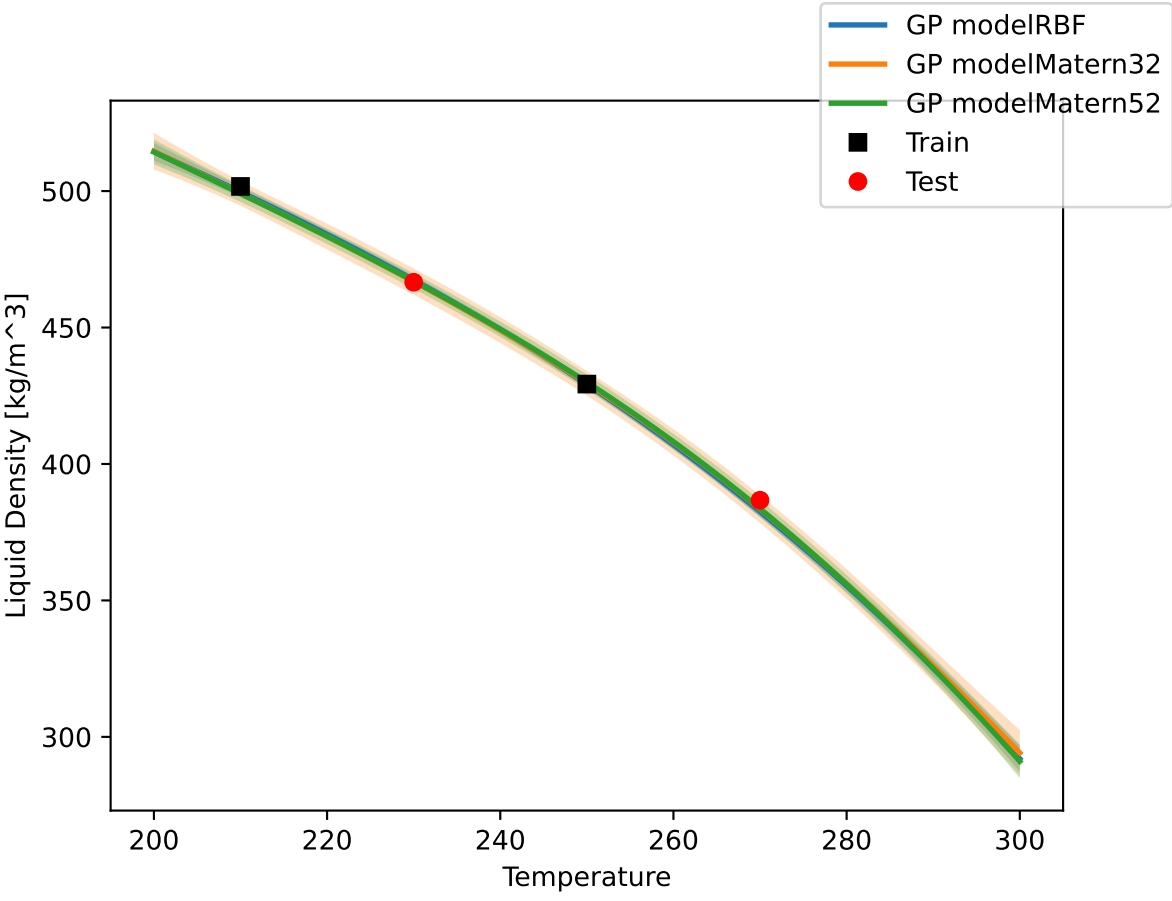
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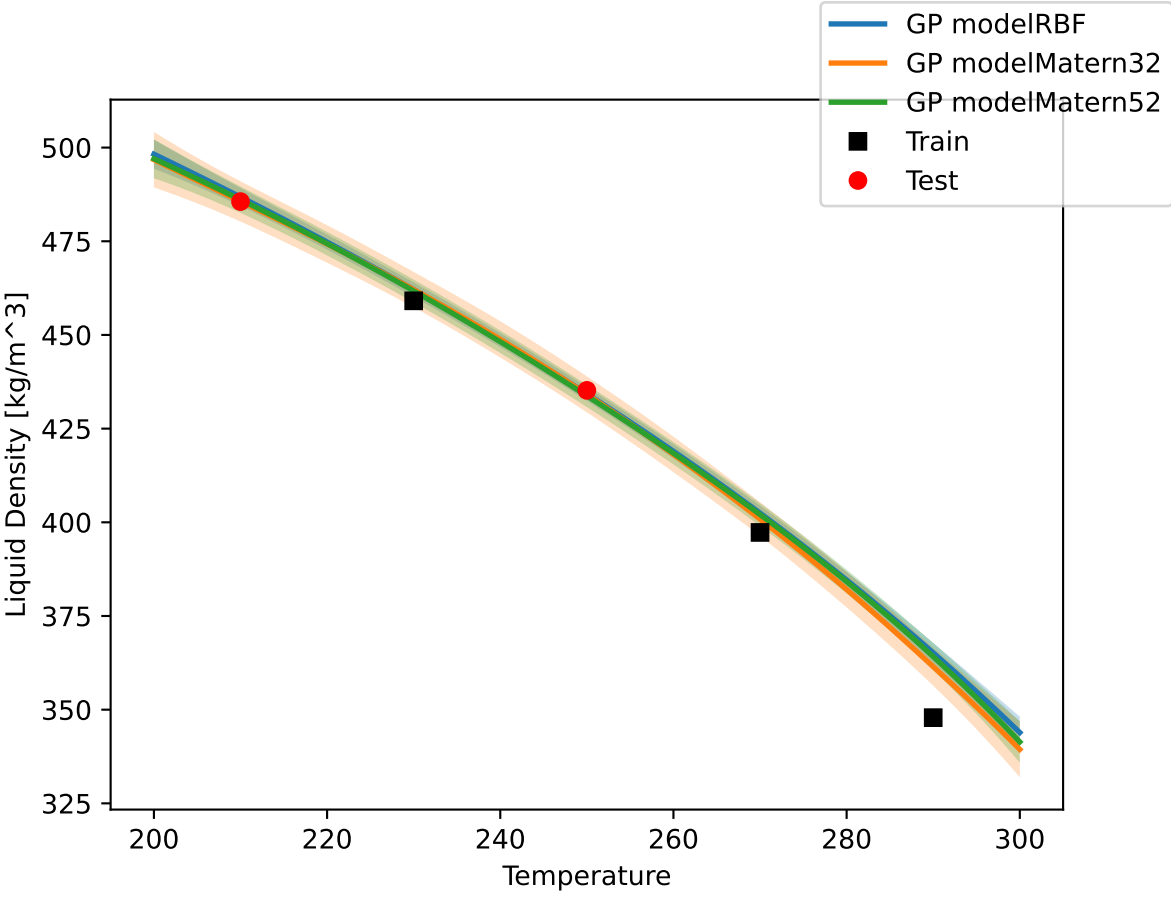
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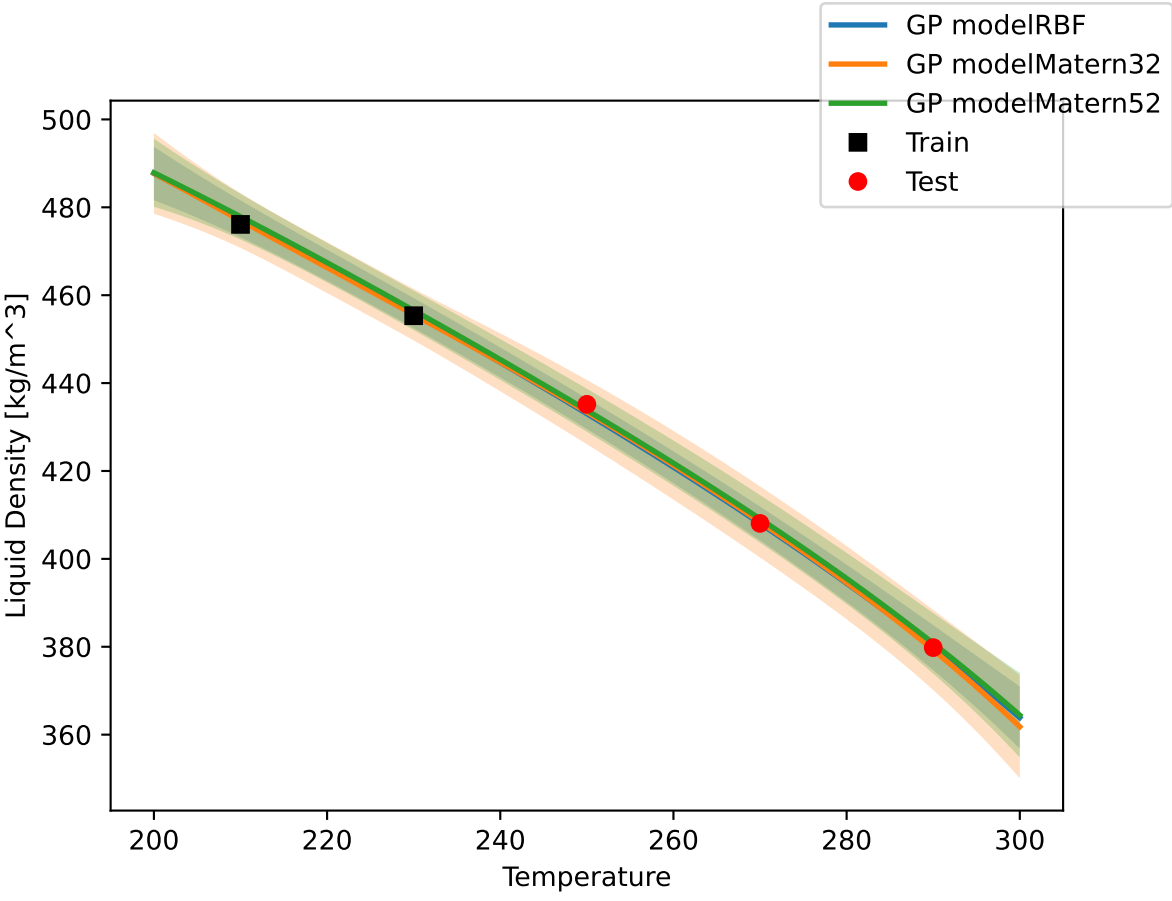
Temperature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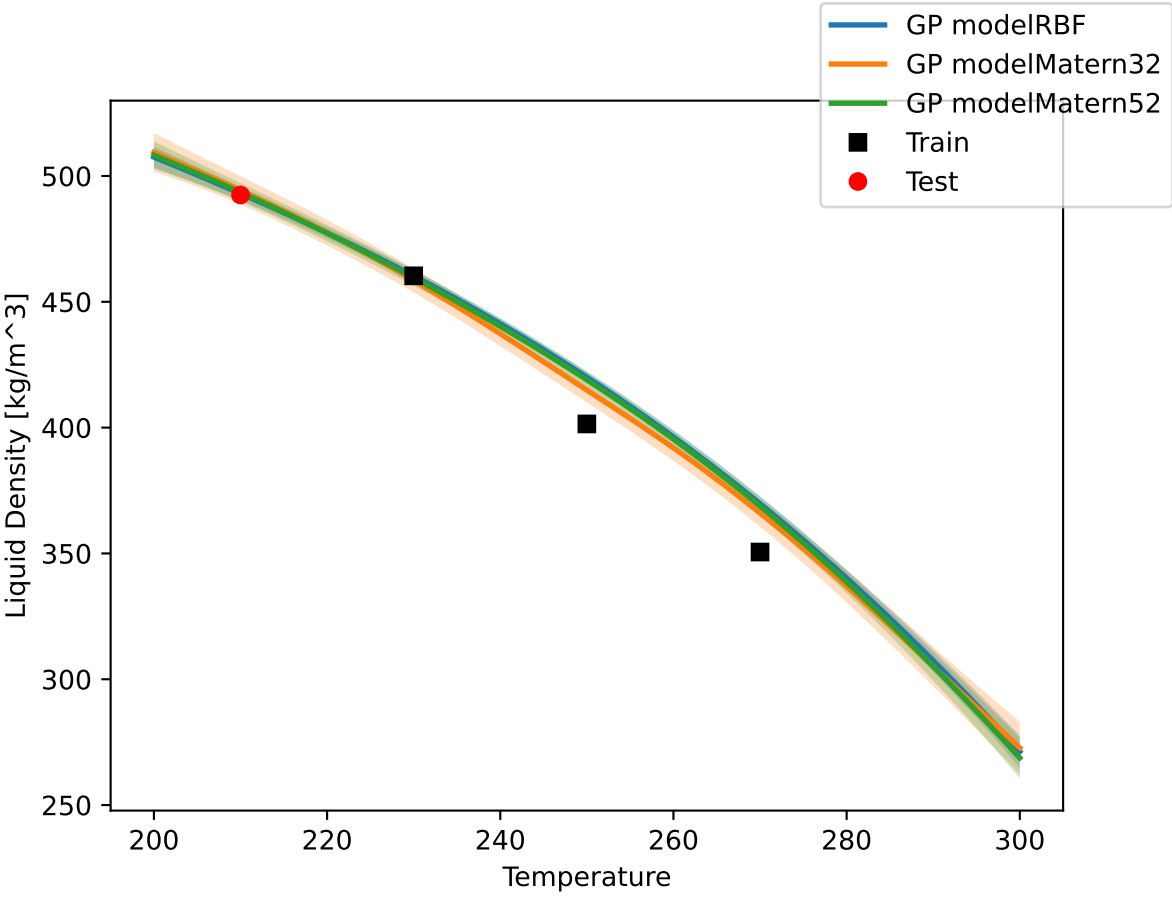
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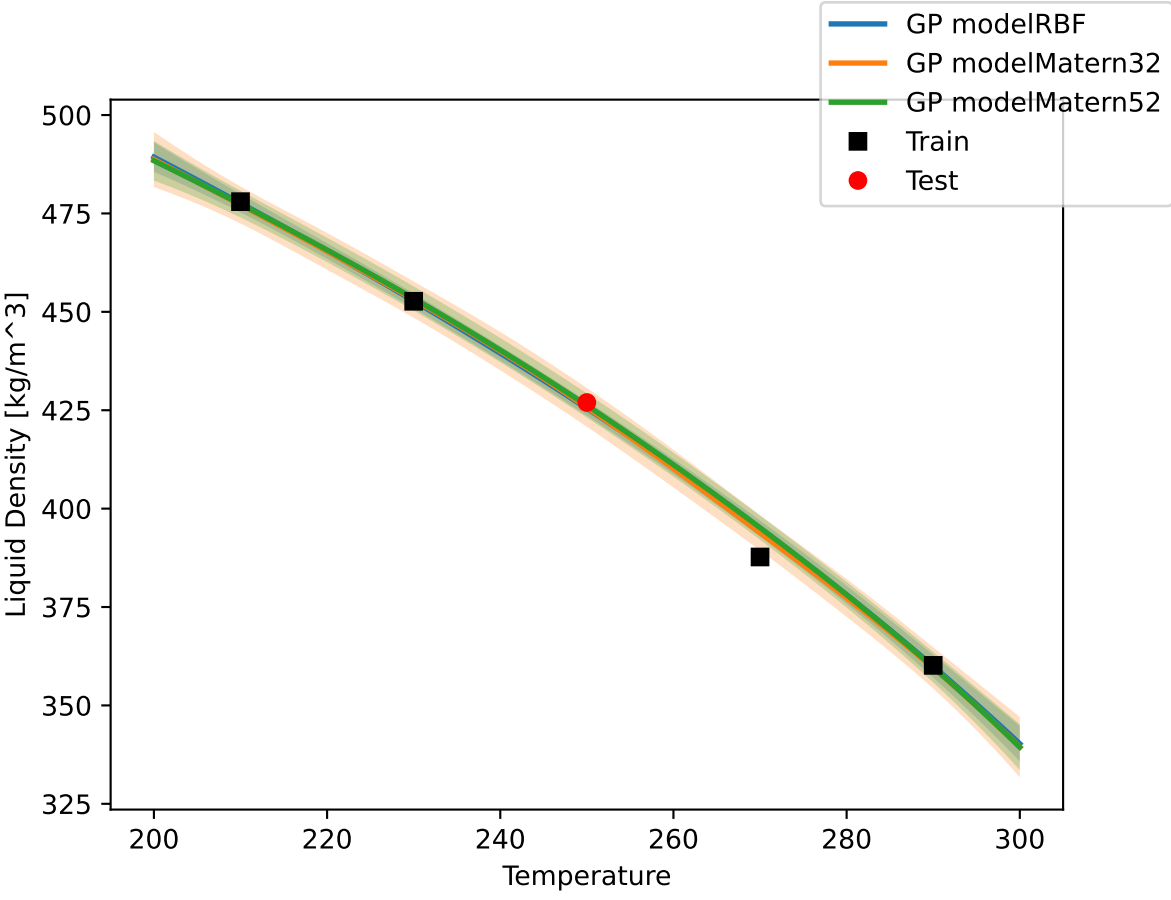
Temperature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Temperature
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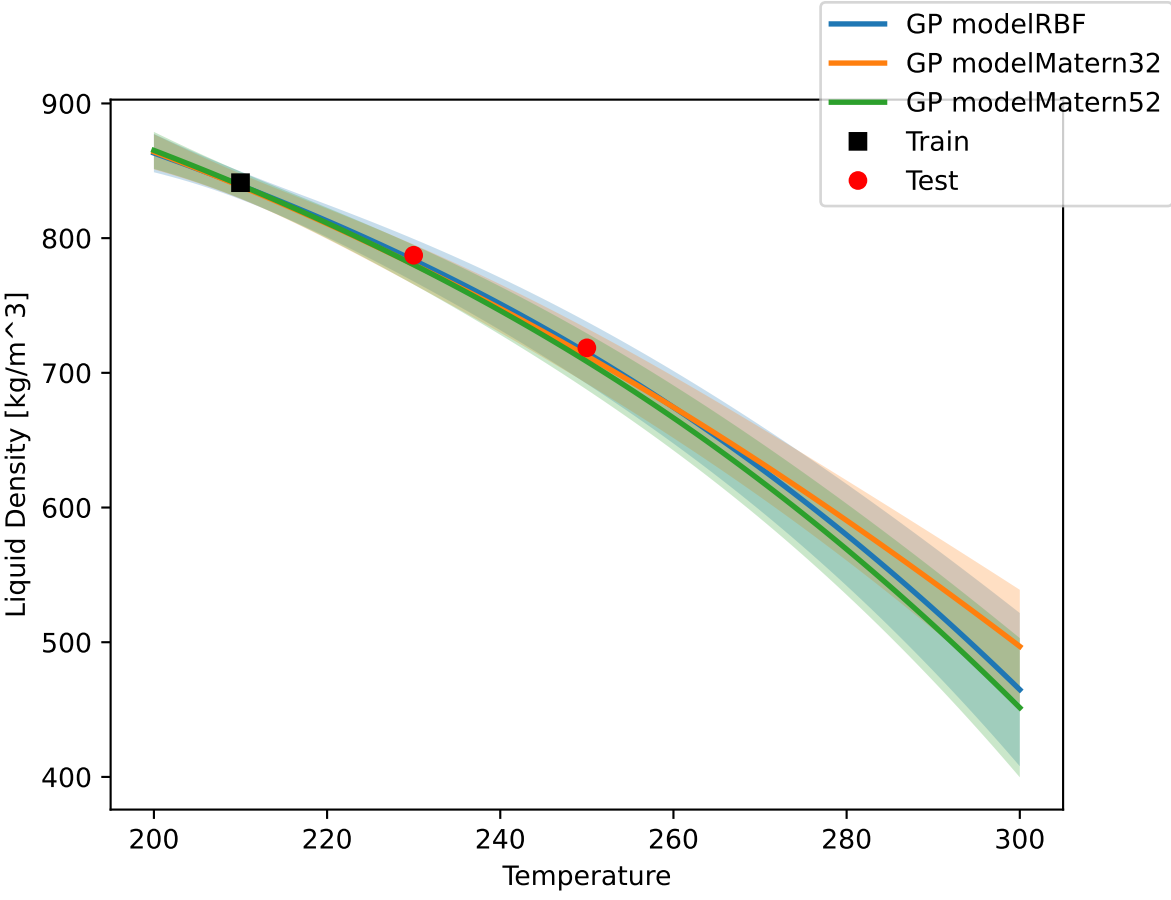
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Liquid Density [kg/m^3]
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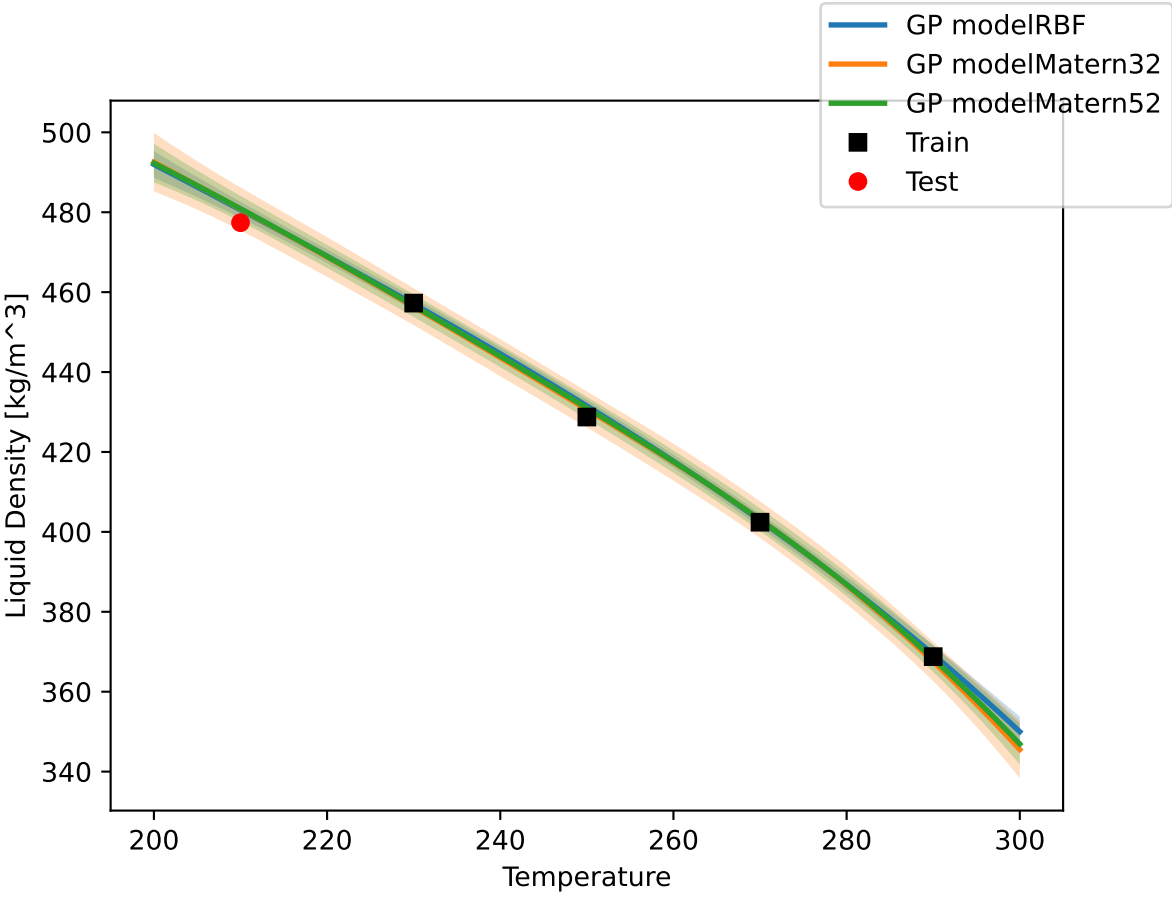
Temperature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Temperature
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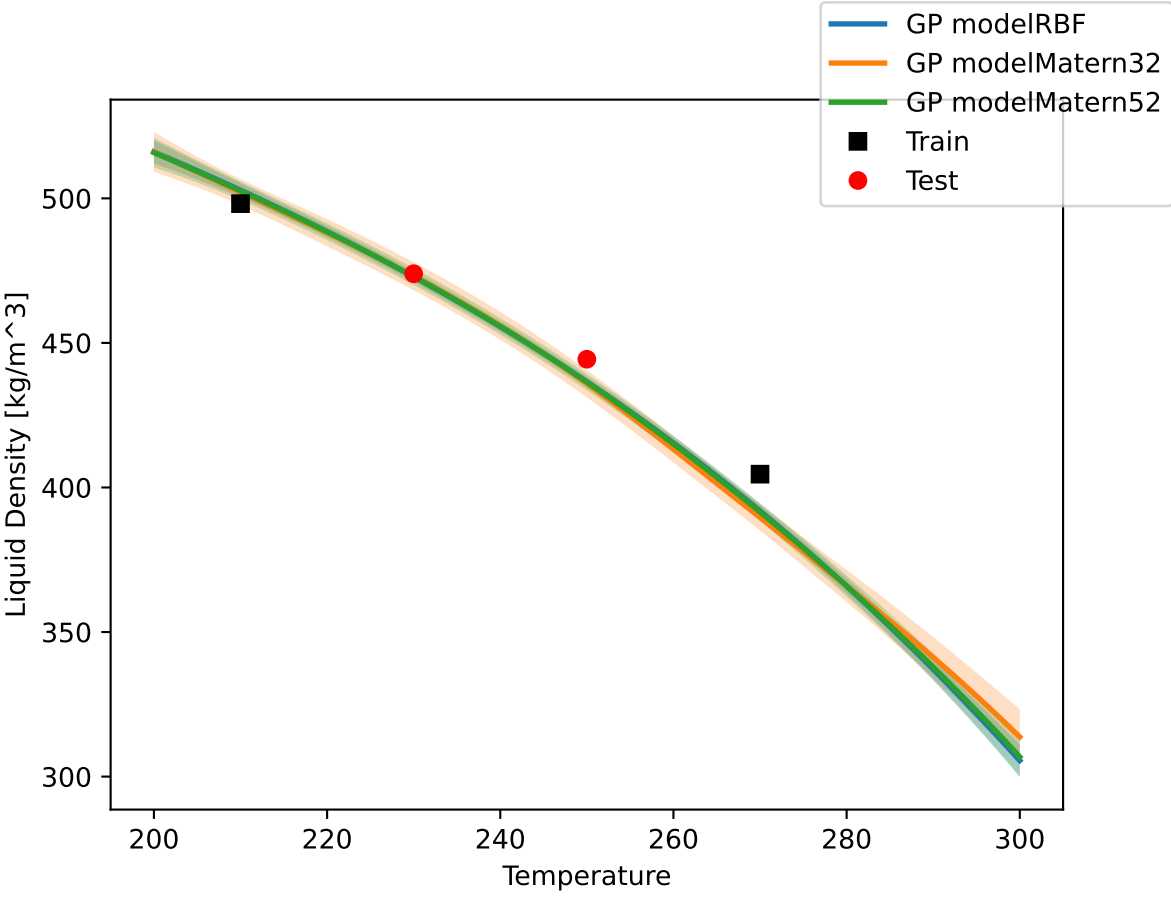
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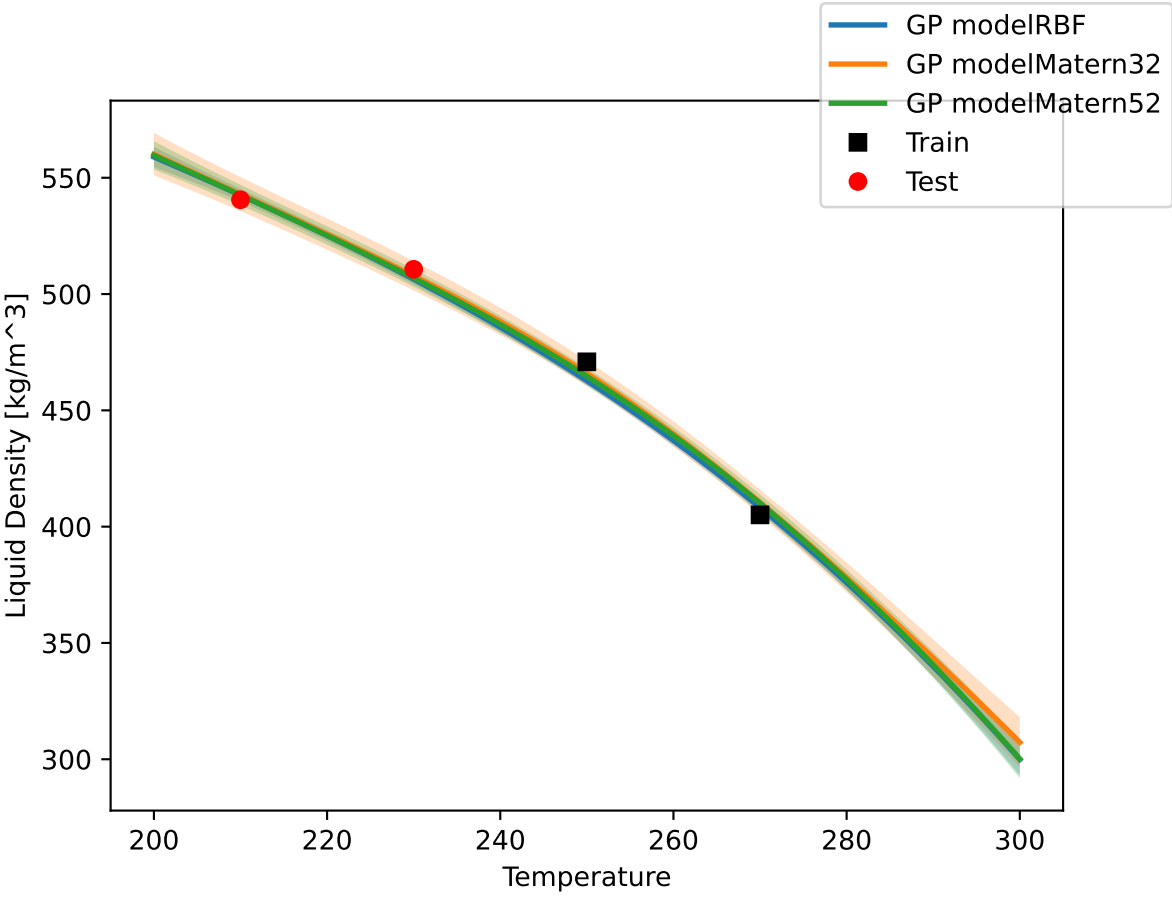
Temperature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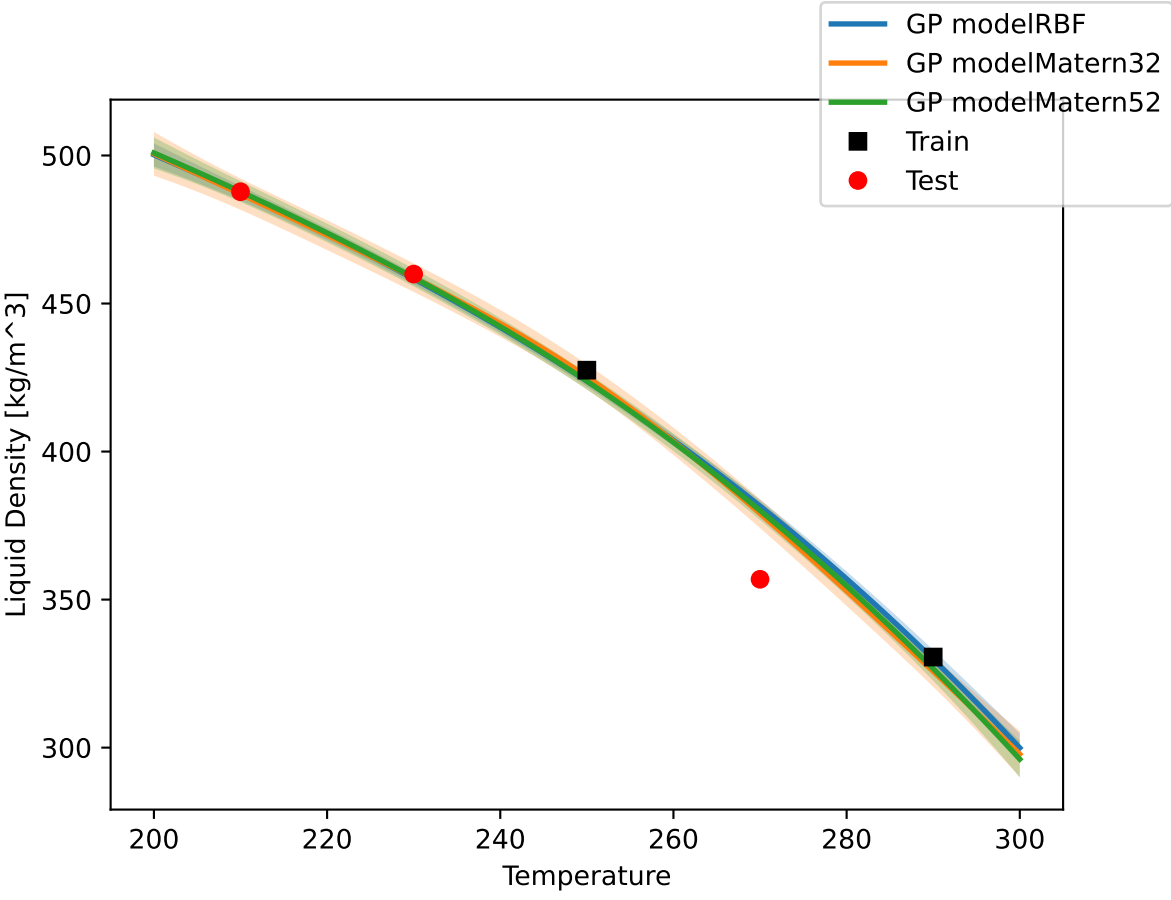
Temperature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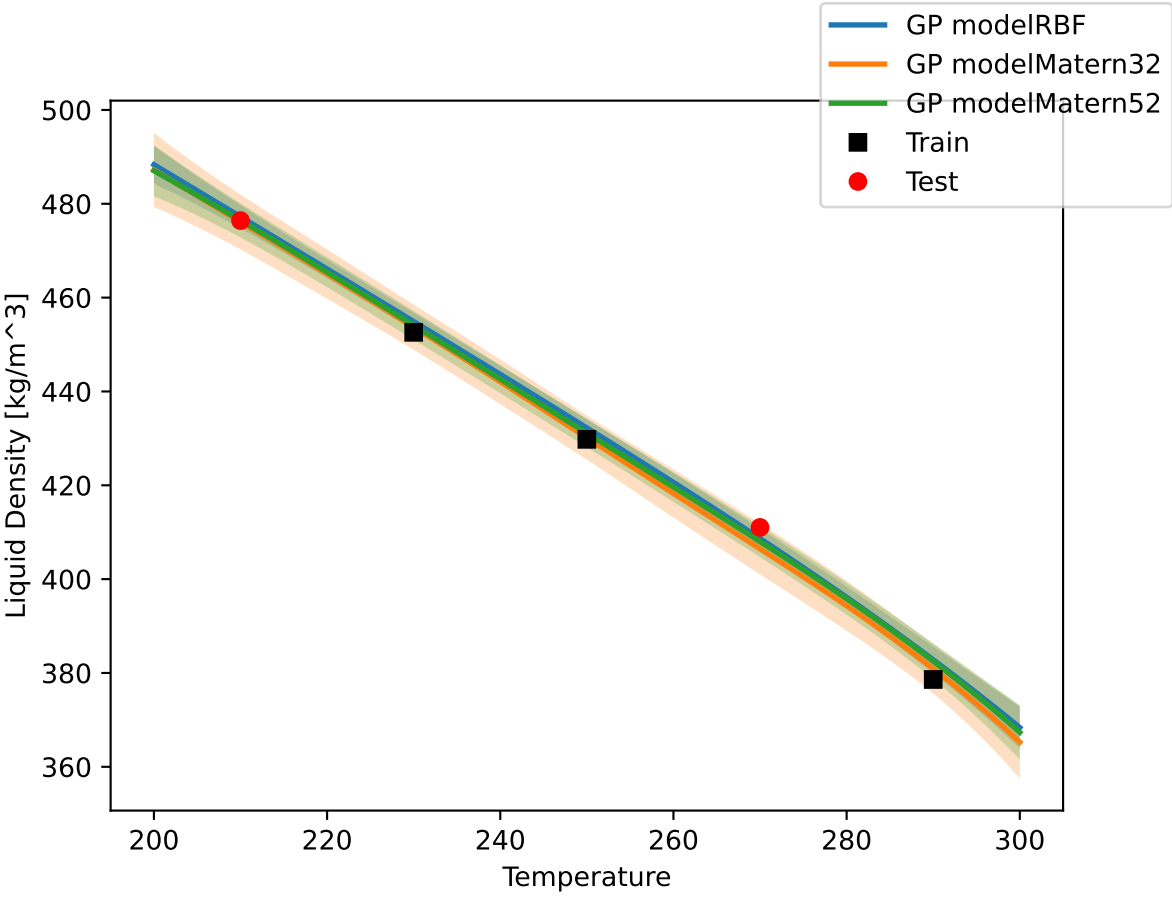
Temperature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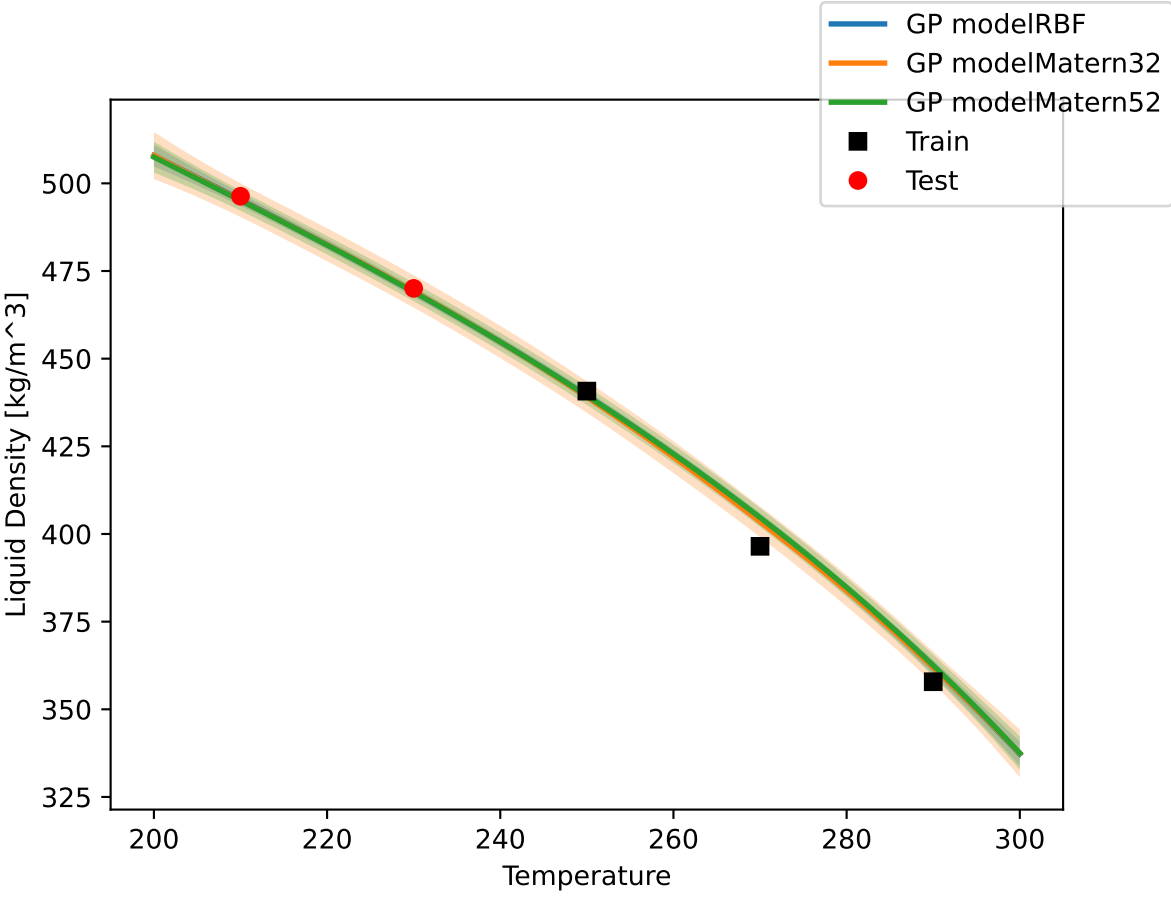
300
Temperature


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
500
475
450
425
400
375
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325
200
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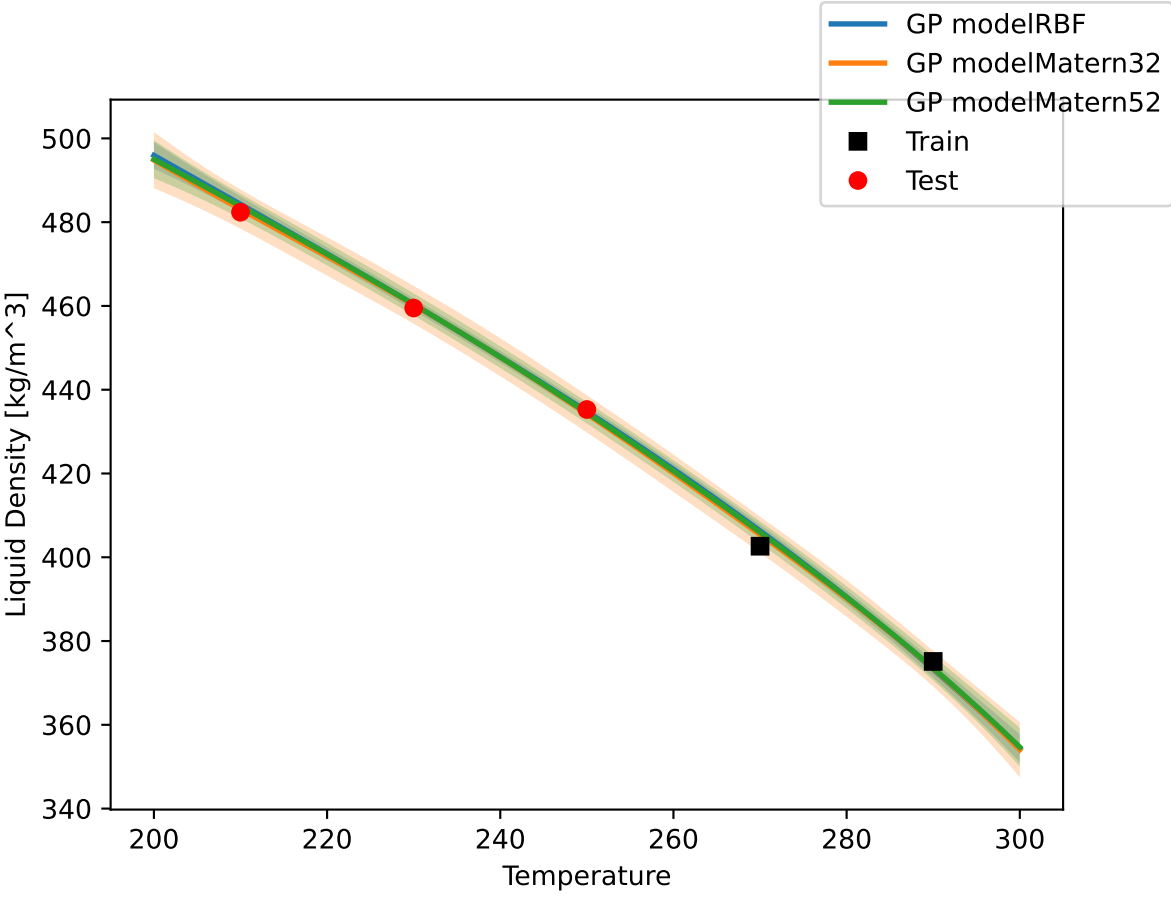
260
280
300
Temperature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GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
Temperature
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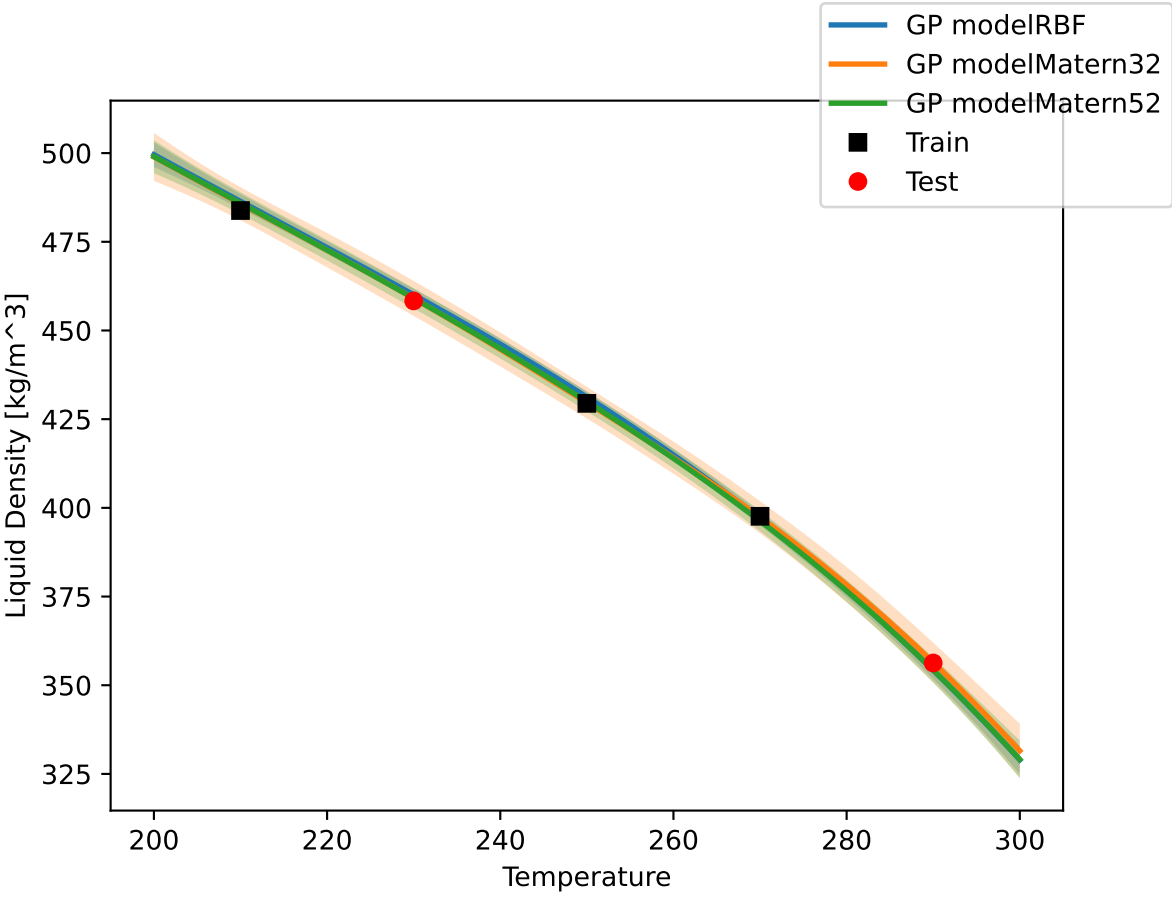
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Train
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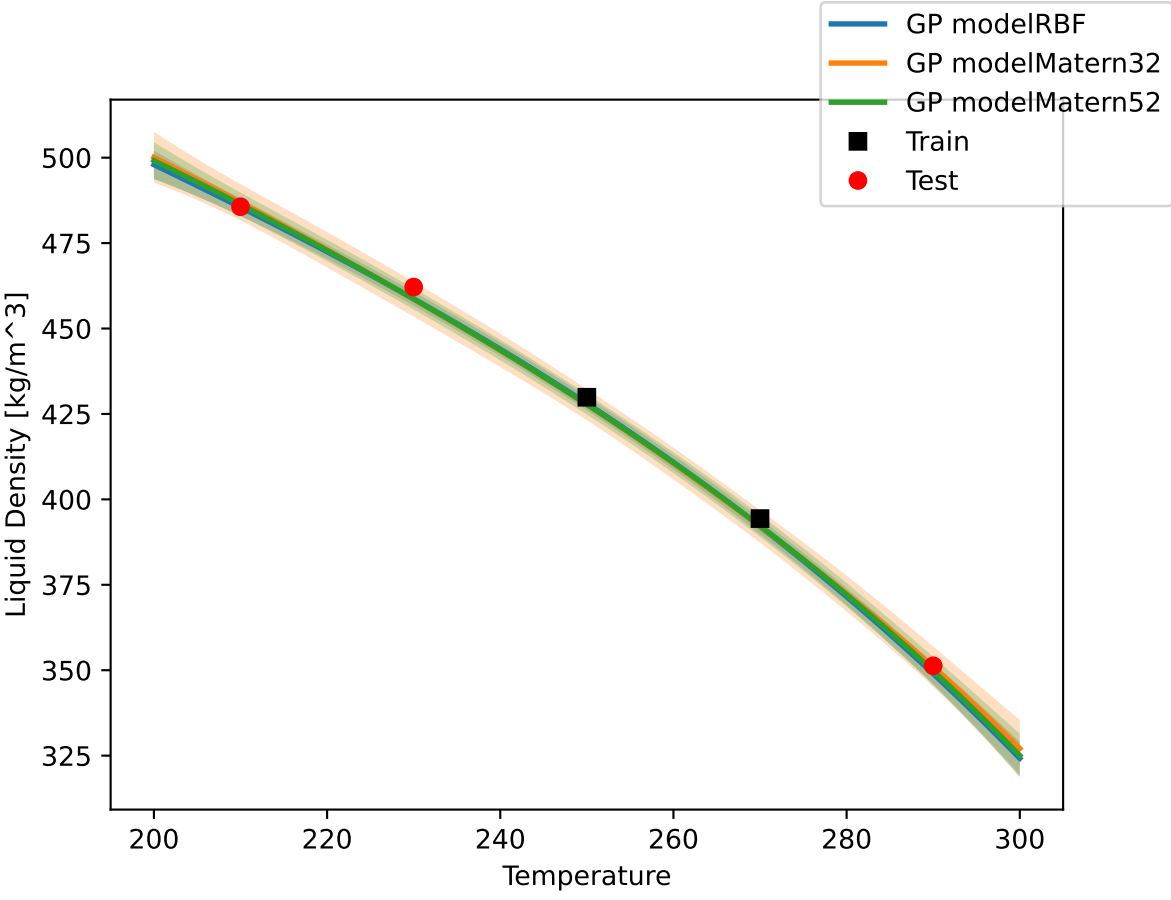
Temperature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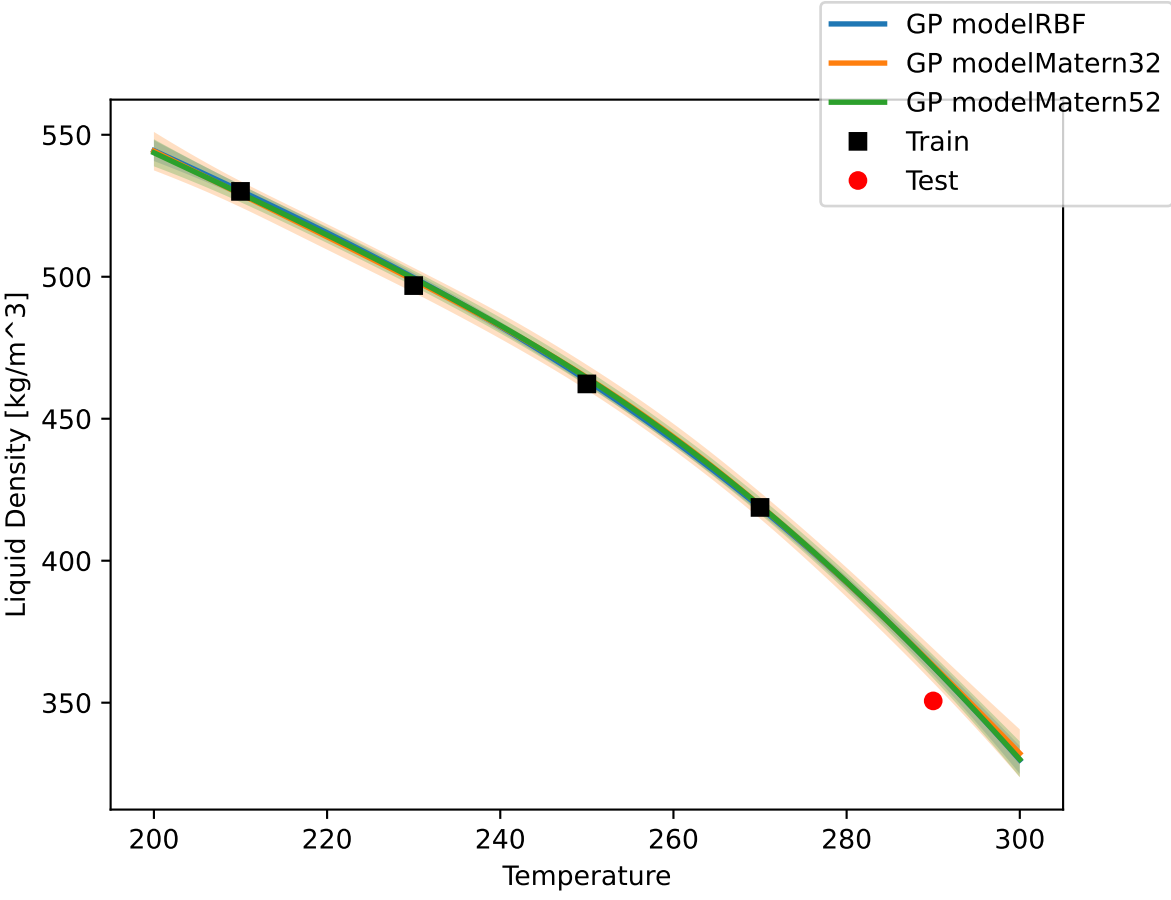
Temperature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Liquid Density [kg/m^3]
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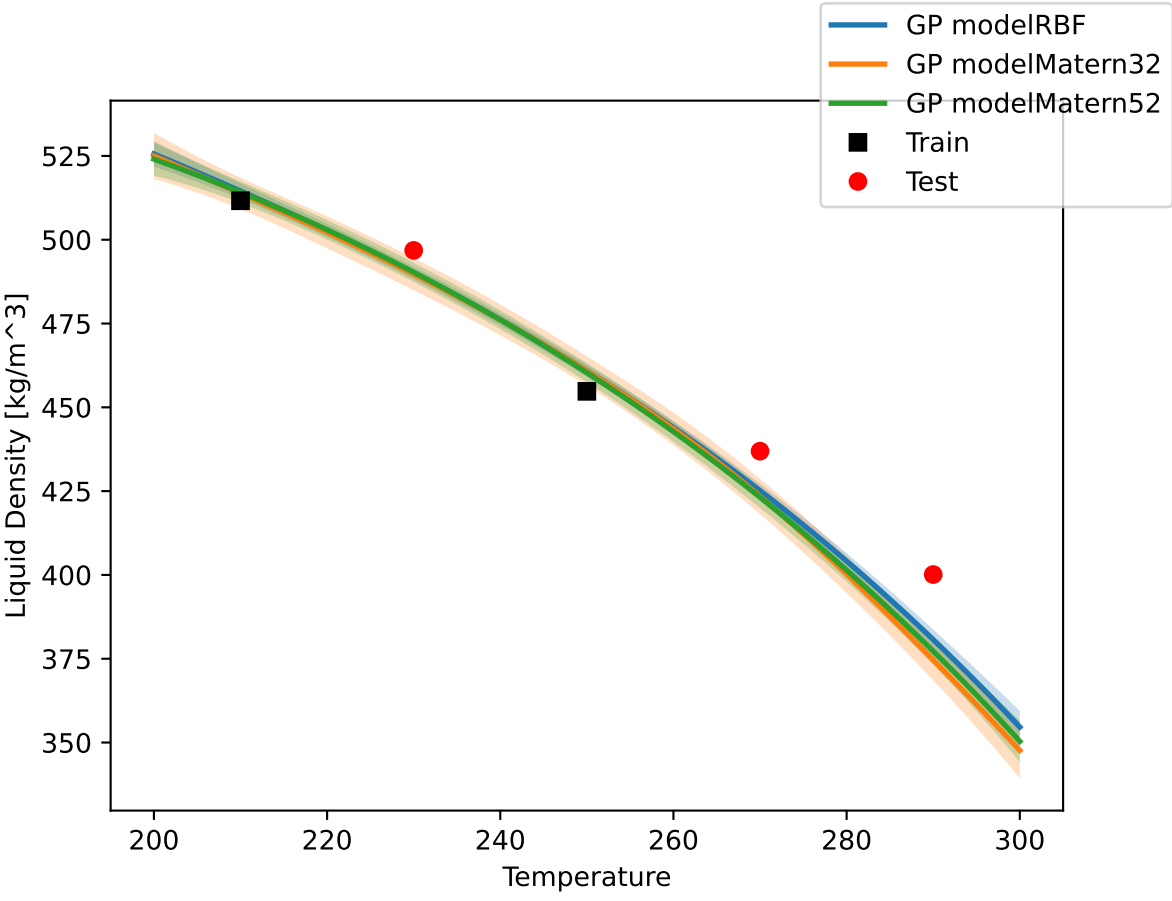
Temperature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Liquid Density [kg/m^3]
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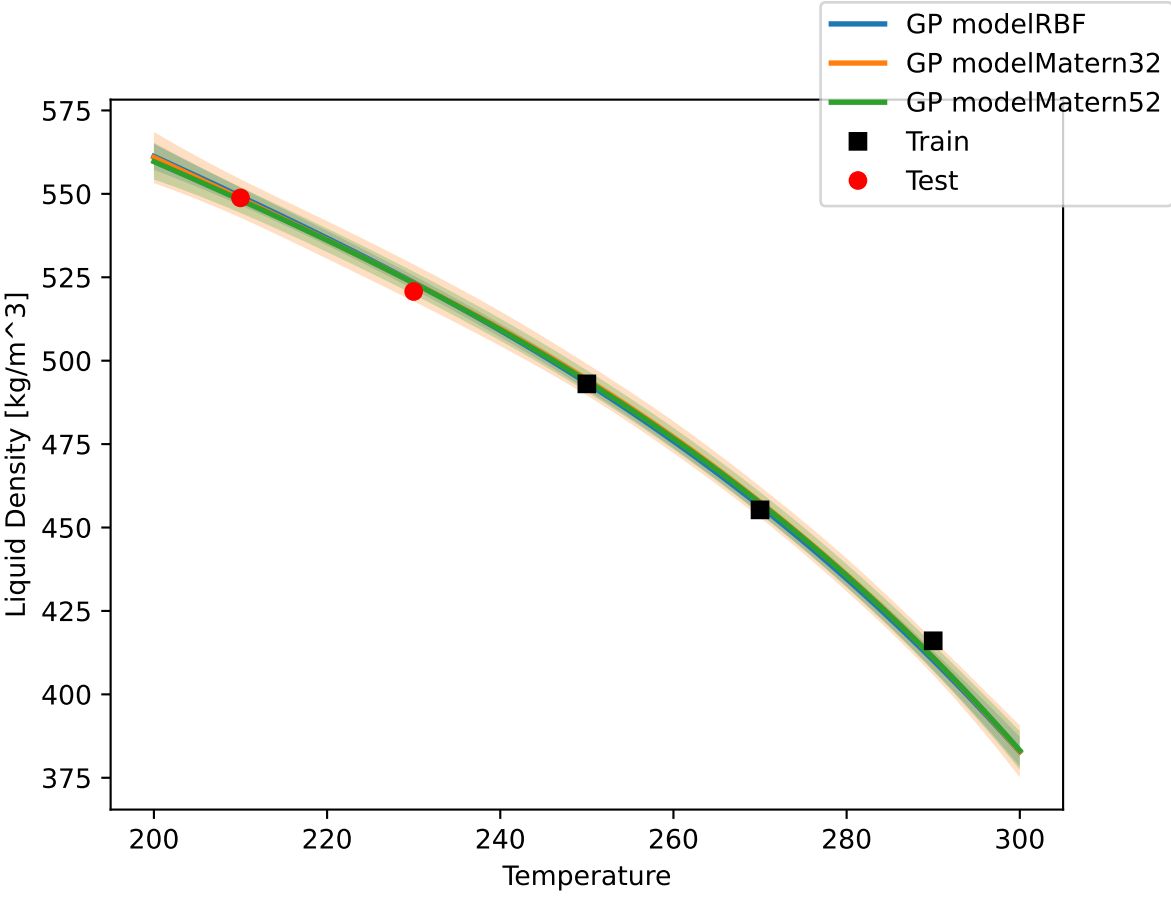
Temperature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Train
Test
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550
525
500
475
450
425
400
375
Liquid Density [kg/m^3]
200
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260
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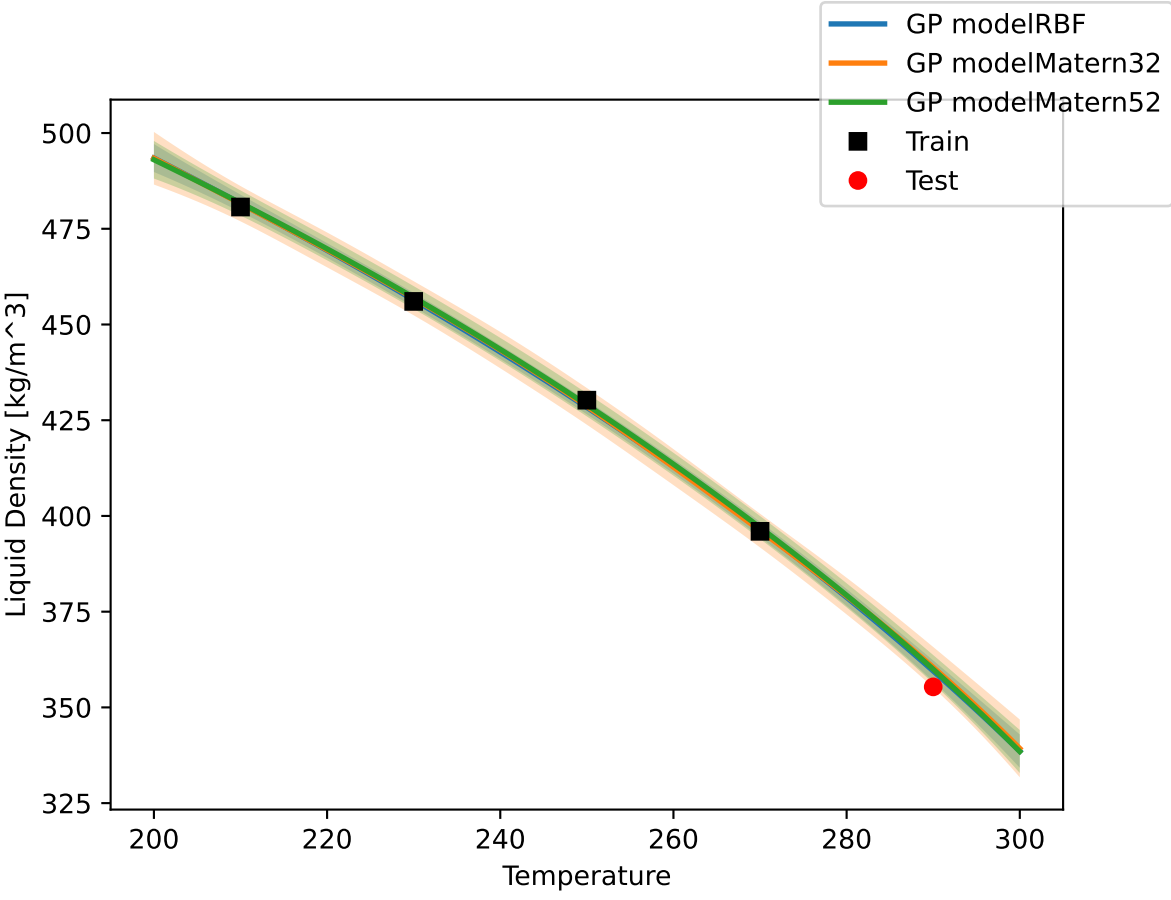
300
Temperature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Train
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Liquid Density [kg/m^3]
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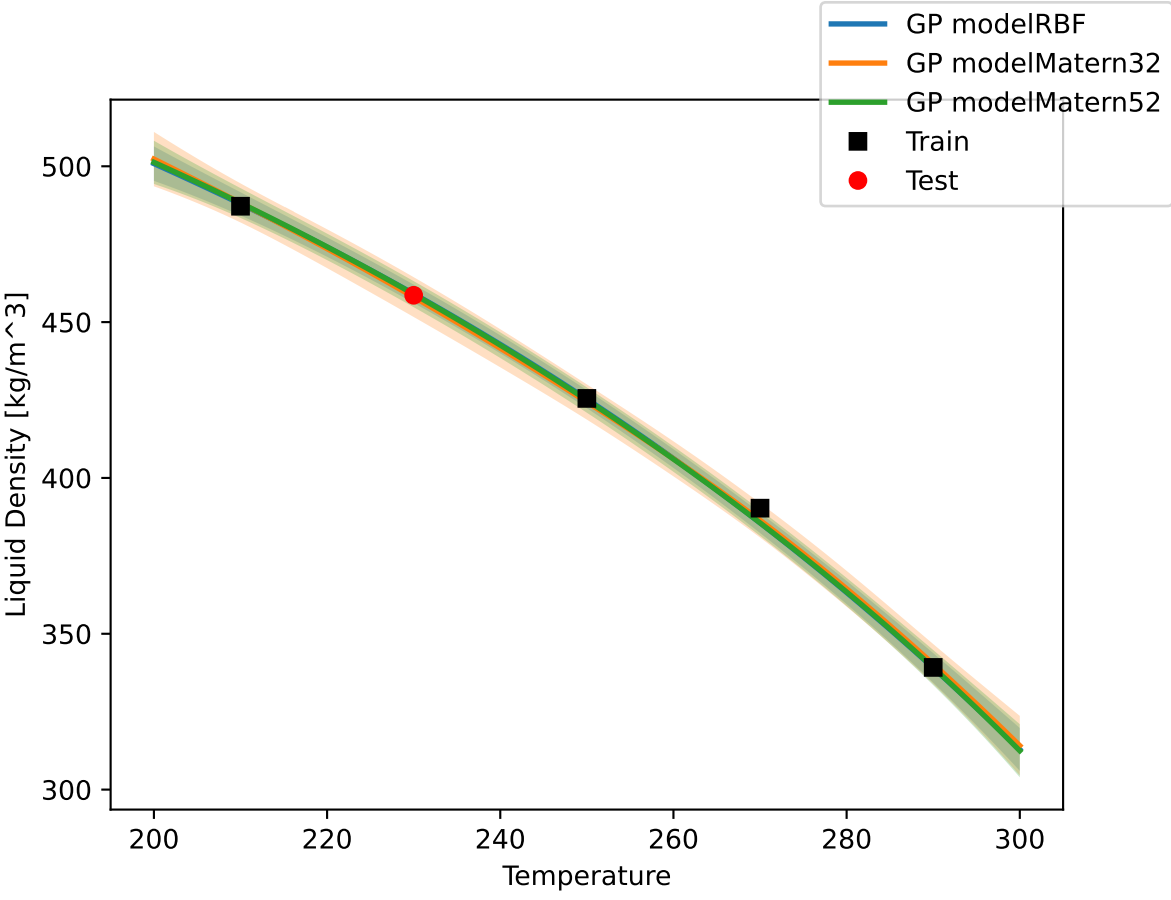
300
Temperature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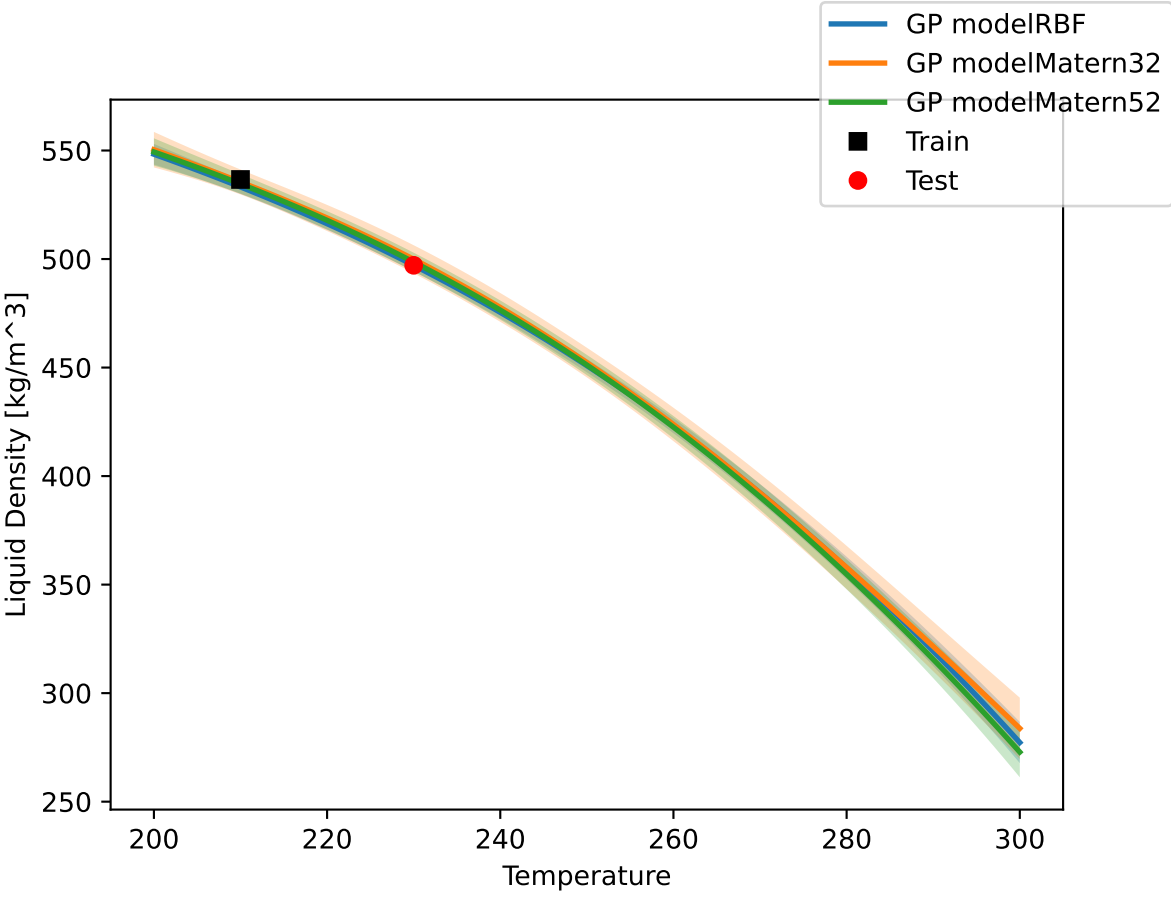
Temperature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Train
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Liquid Density [kg/m^3]
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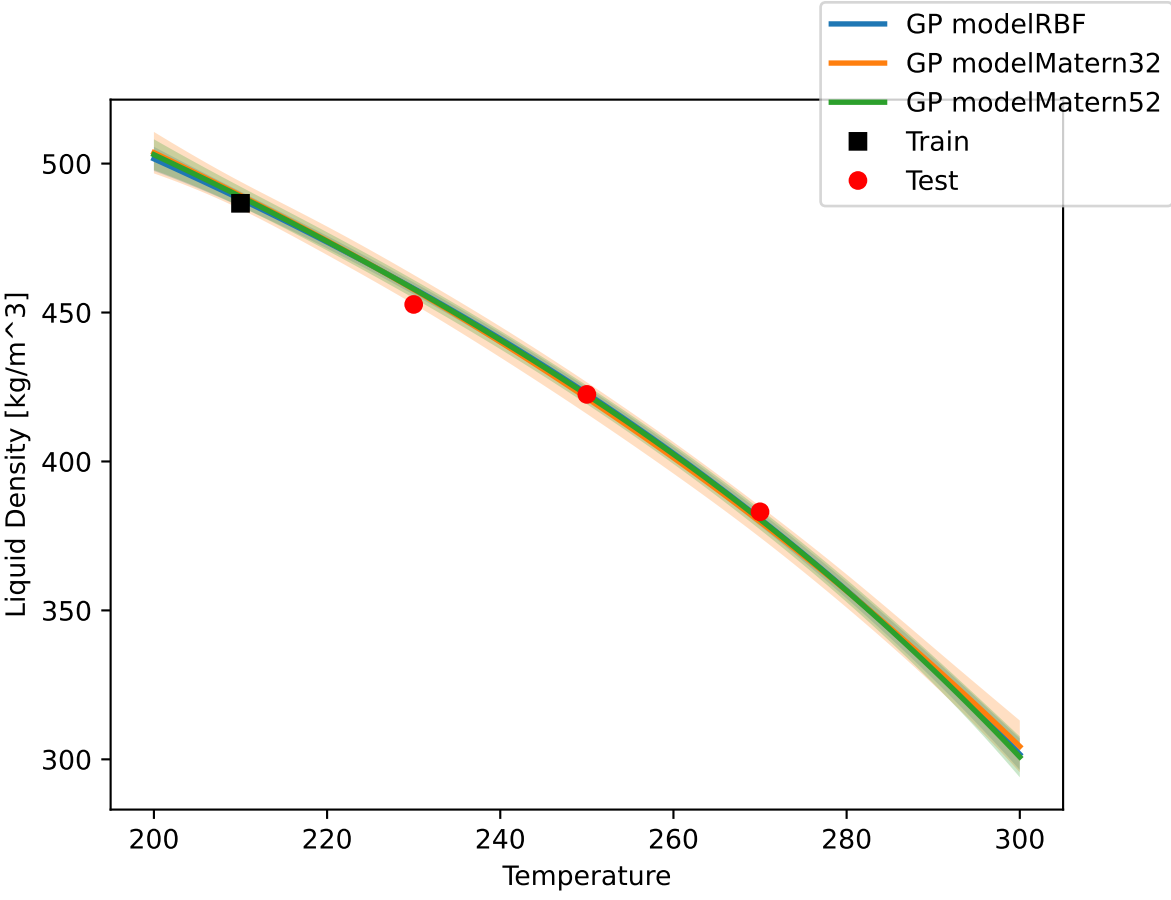
300
Temperature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Train
Test
Liquid Density [kg/m^3]
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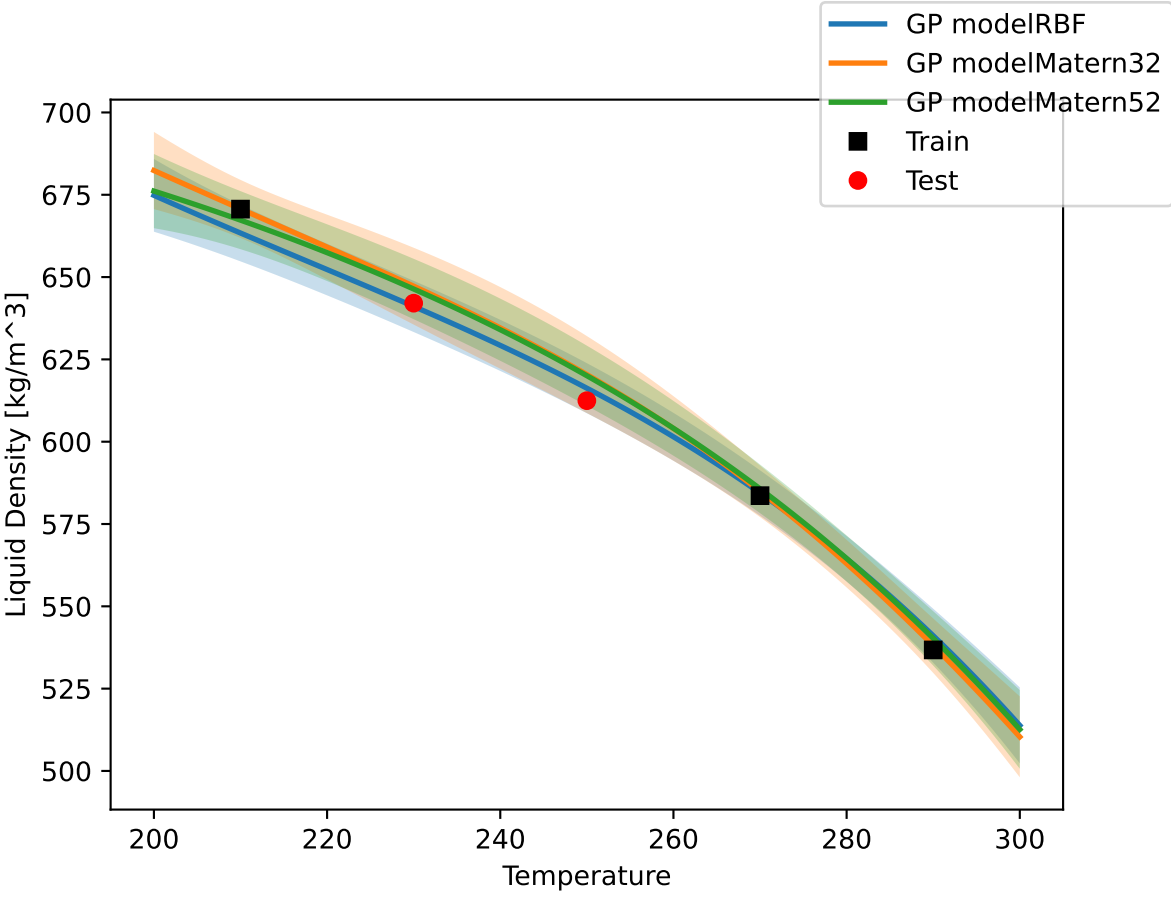
300
Temperature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Train
Test
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675
650
625
600
575
550
525
500
Liquid Density [kg/m^3]
200
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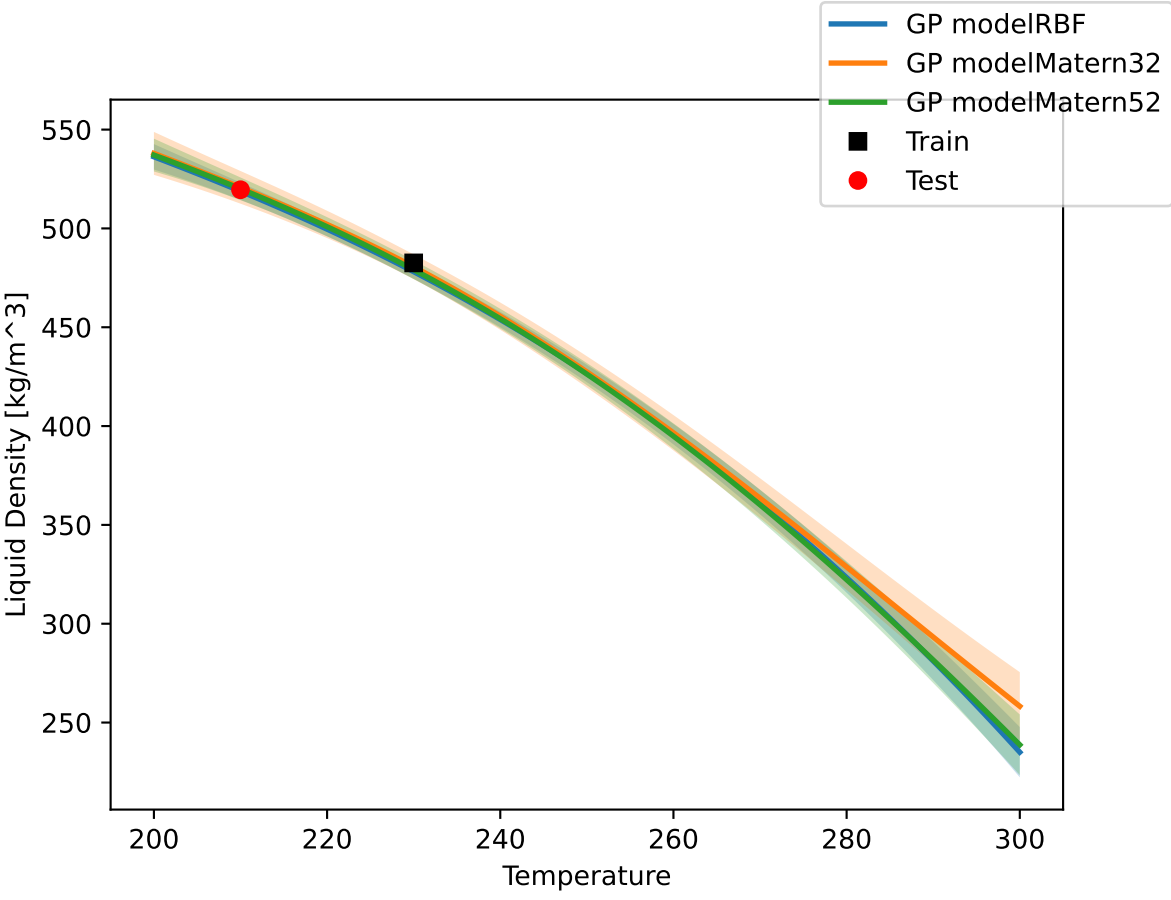
260
280
300
Temperature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Train
Test
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Liquid Density [kg/m^3]
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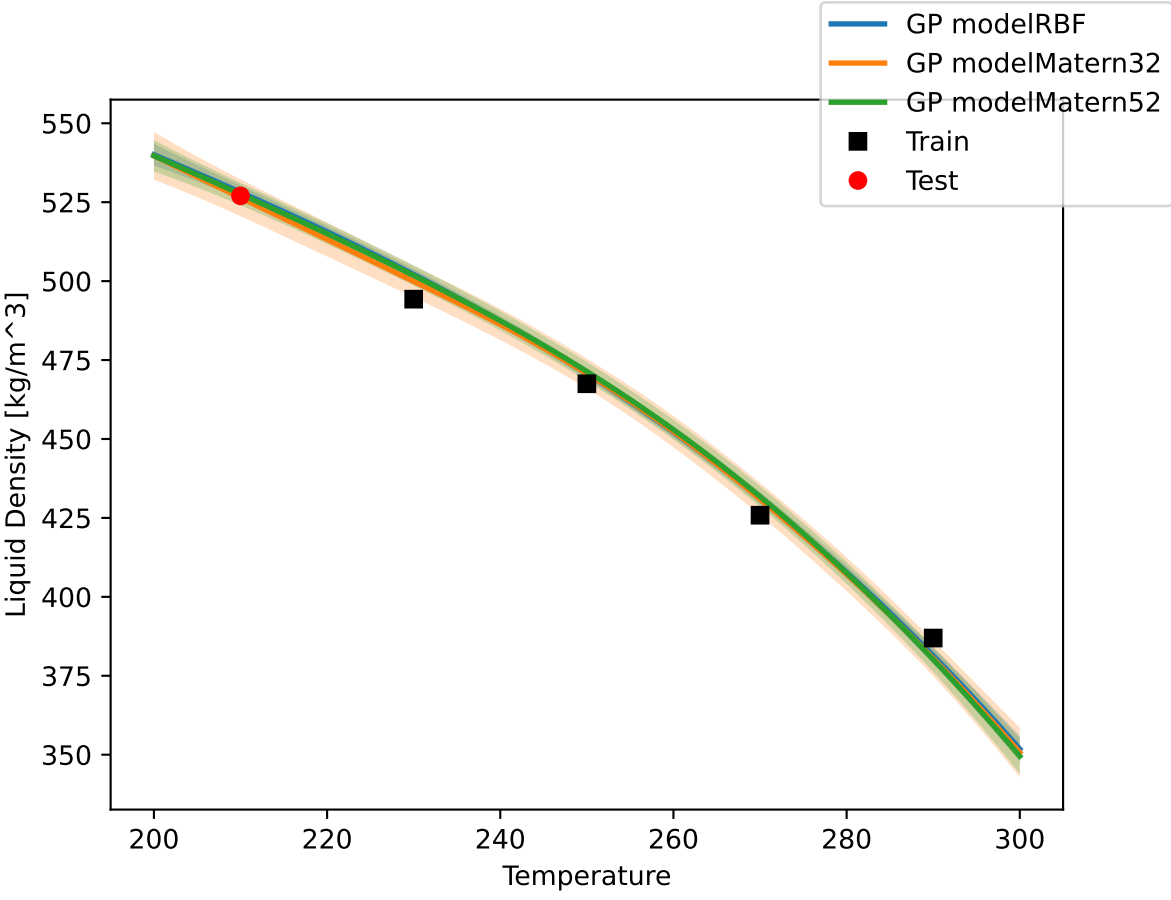
Temperature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Train
Test
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Liquid Density [kg/m^3]
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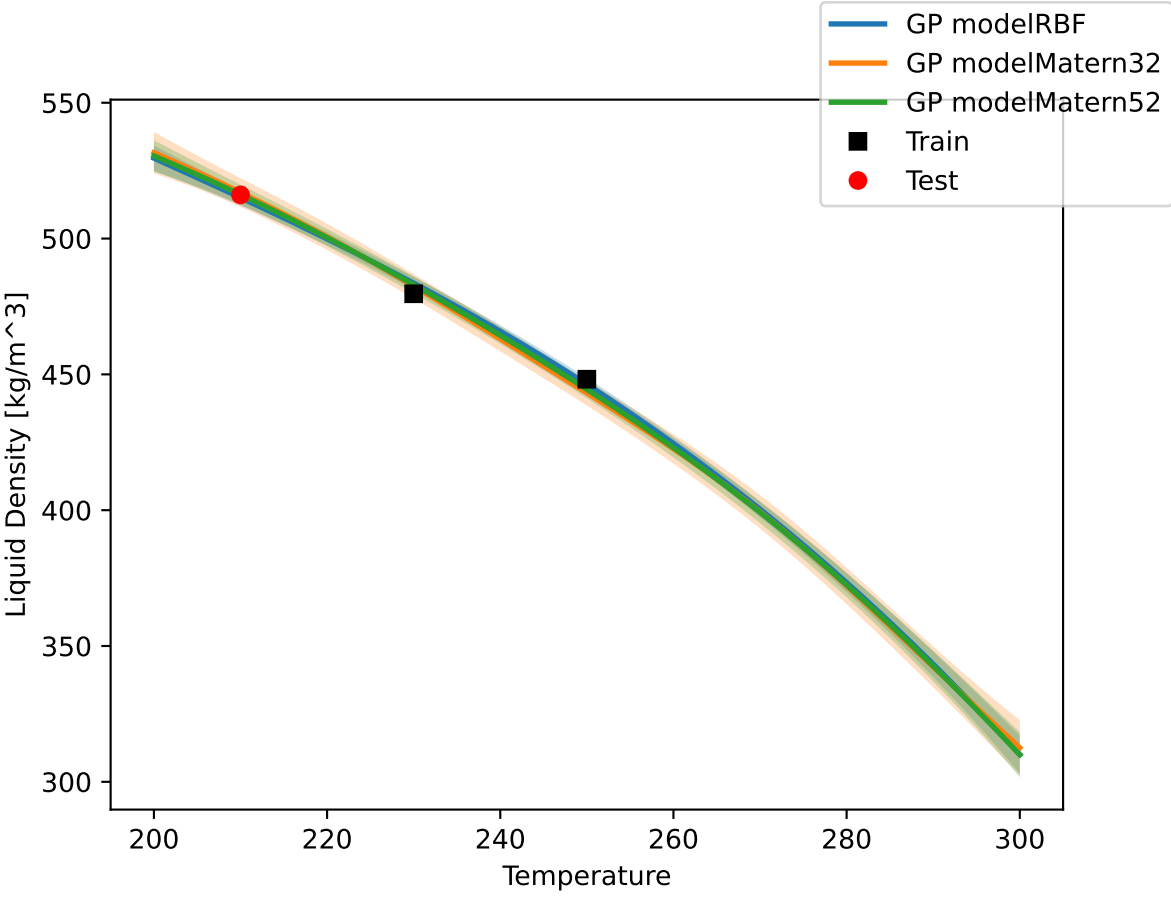
Temperature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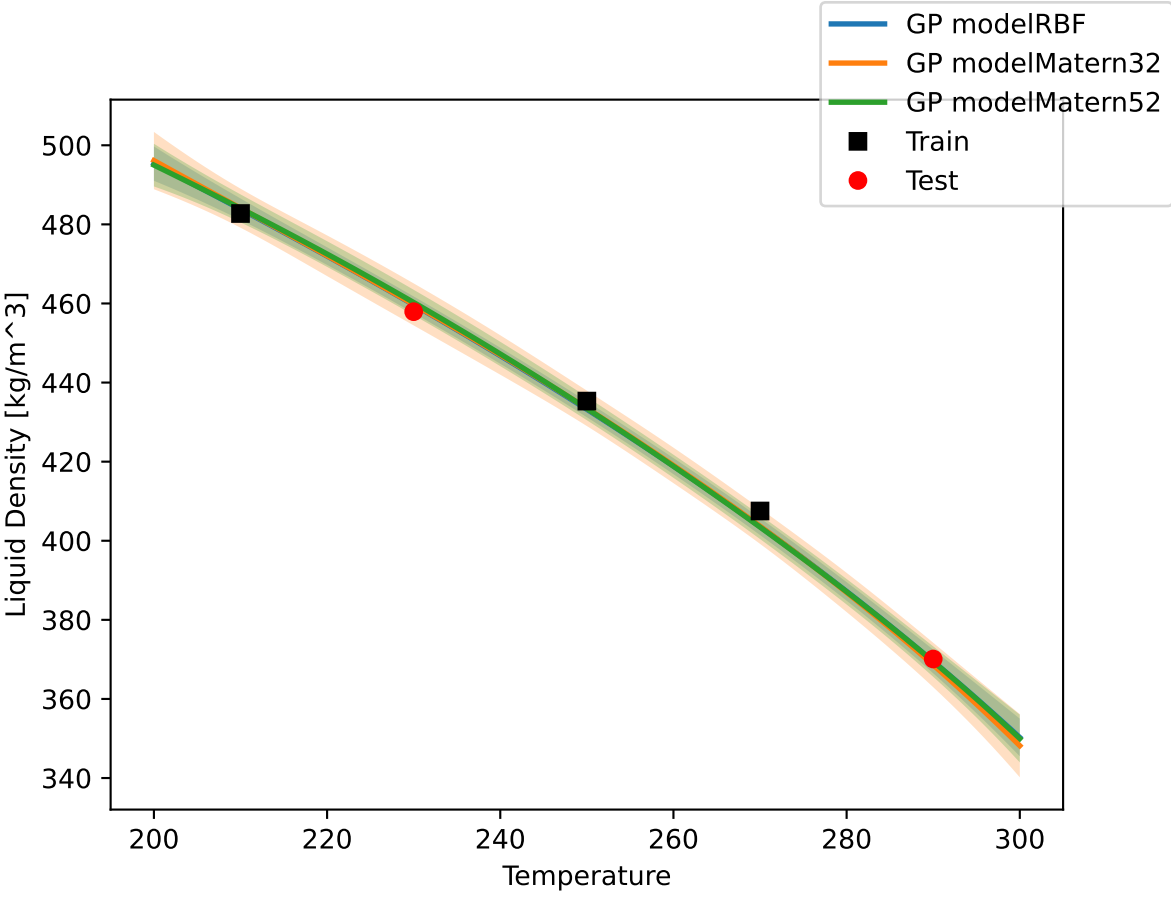
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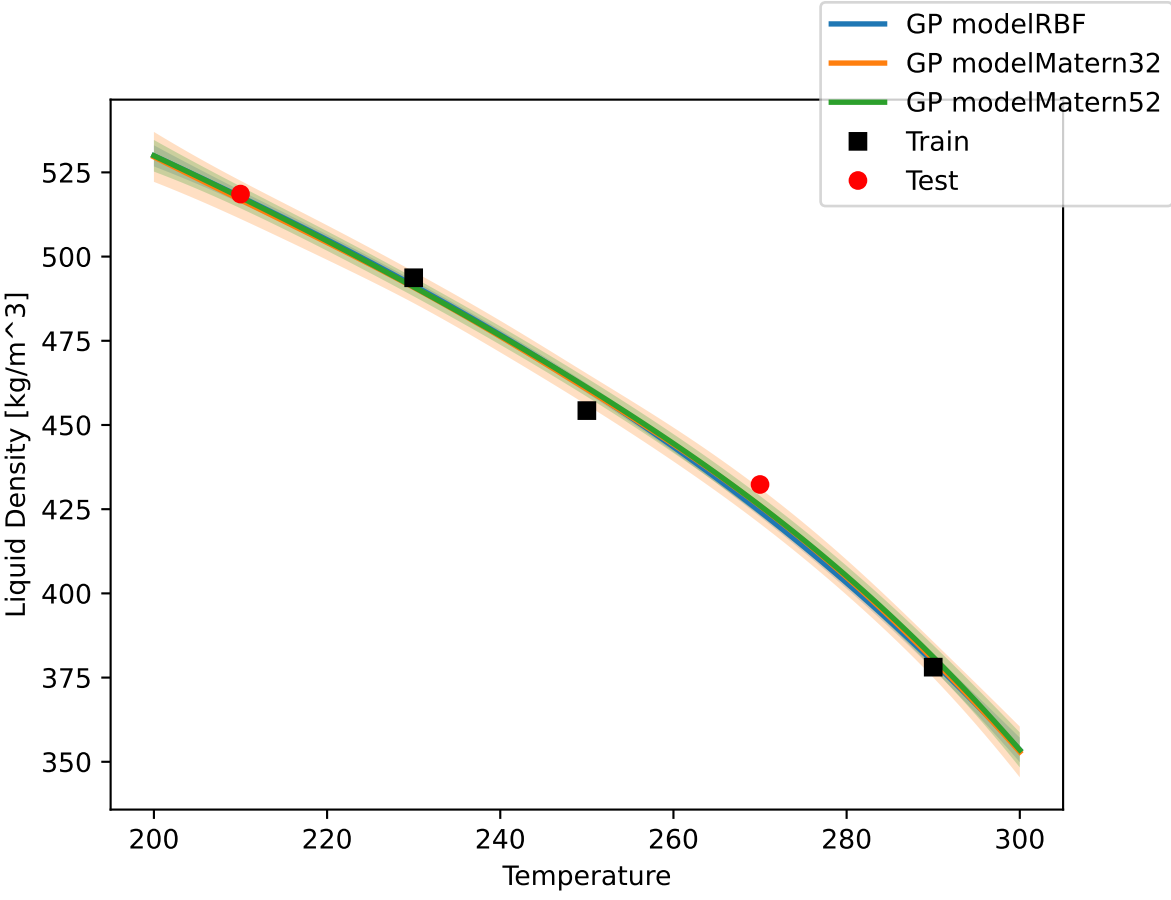
Temperature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Liquid Density [kg/m^3]
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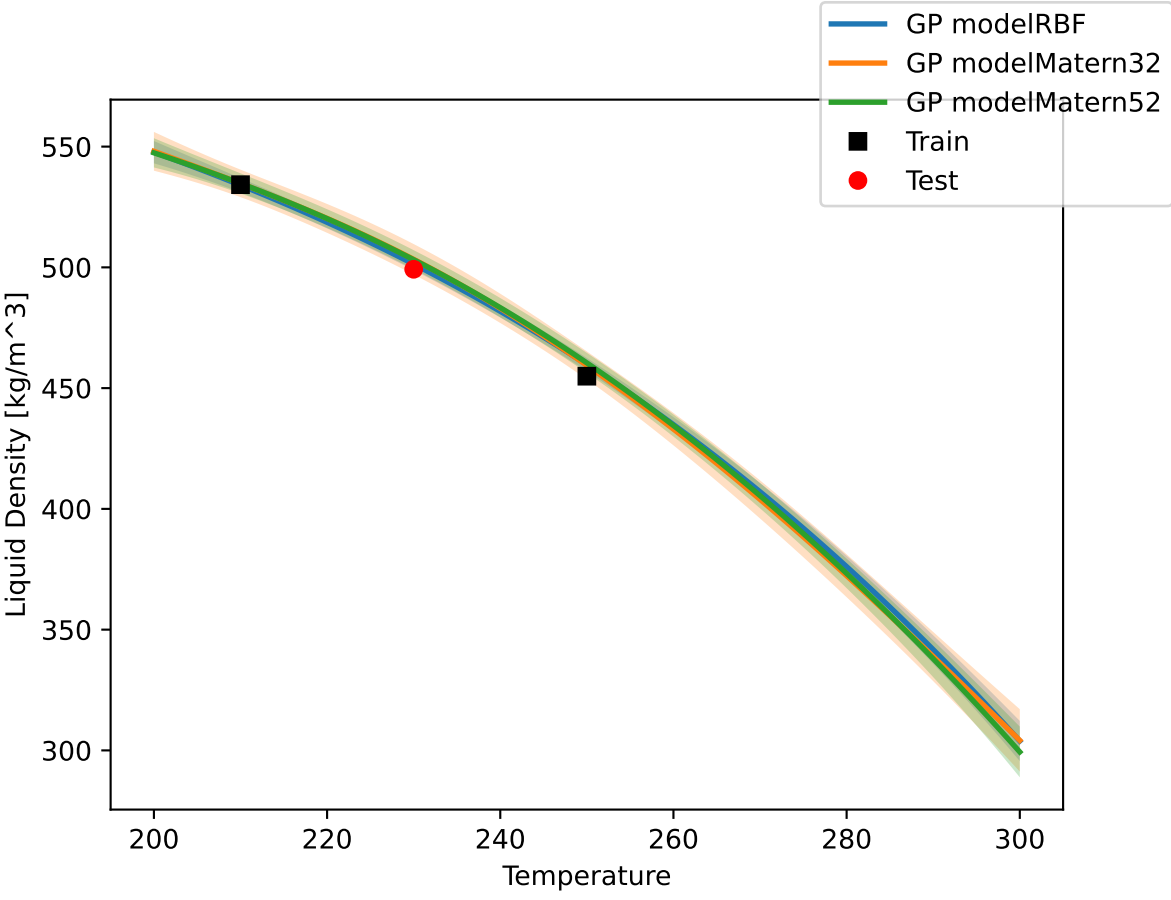
Temperature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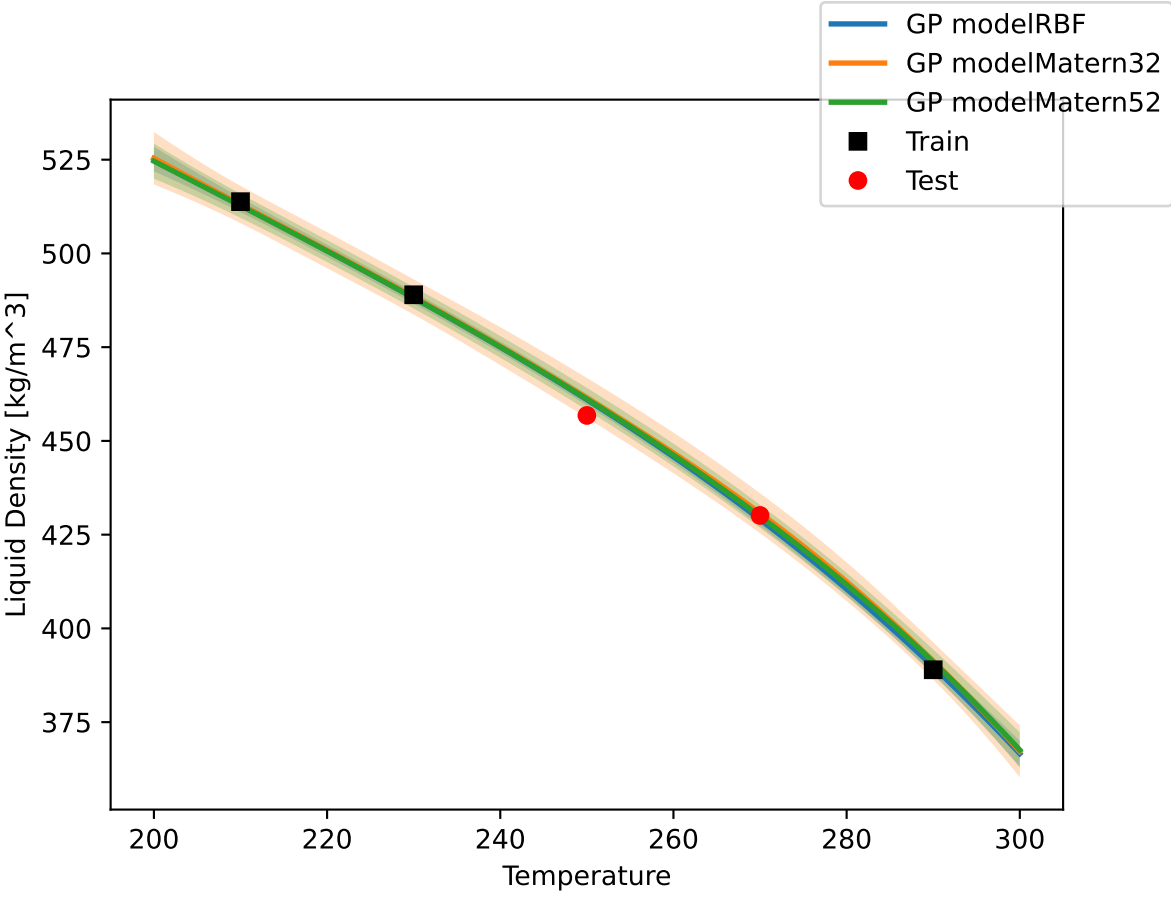
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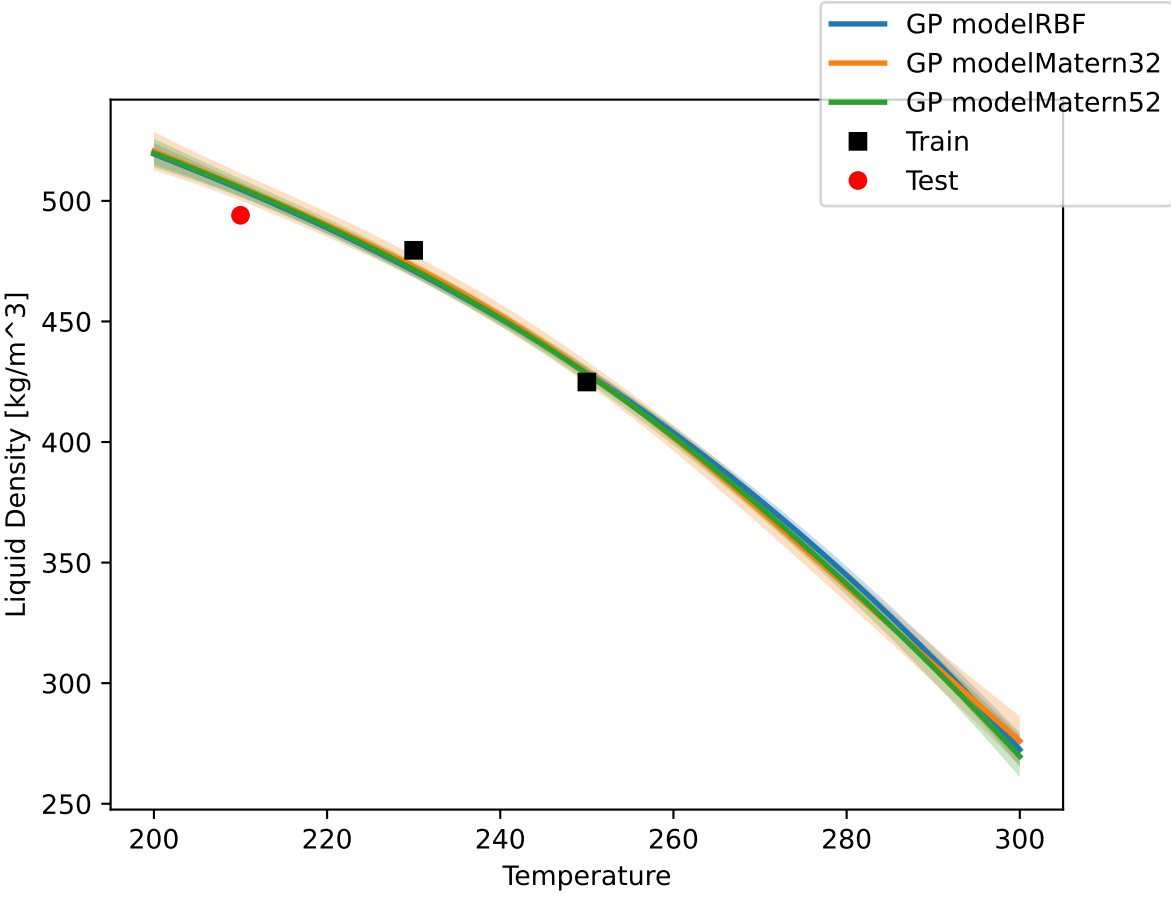
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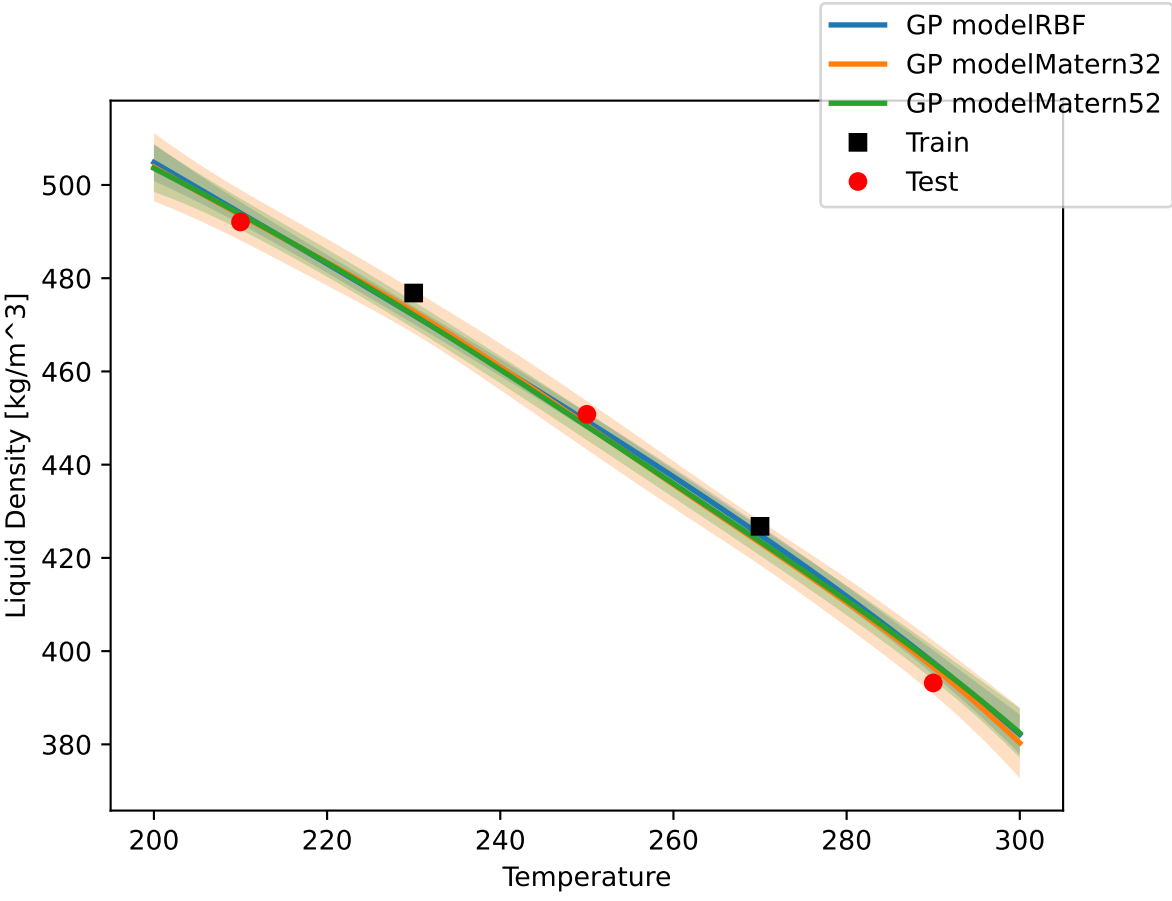
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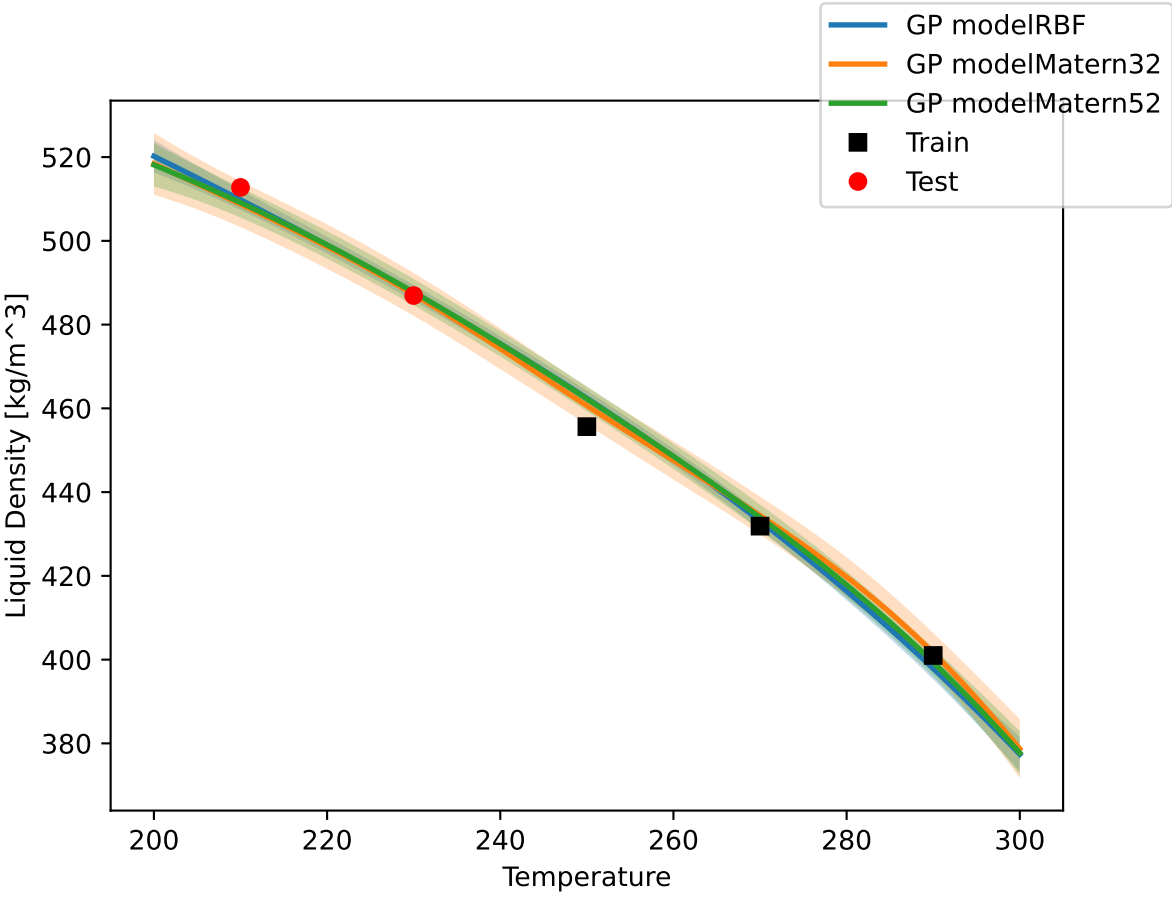
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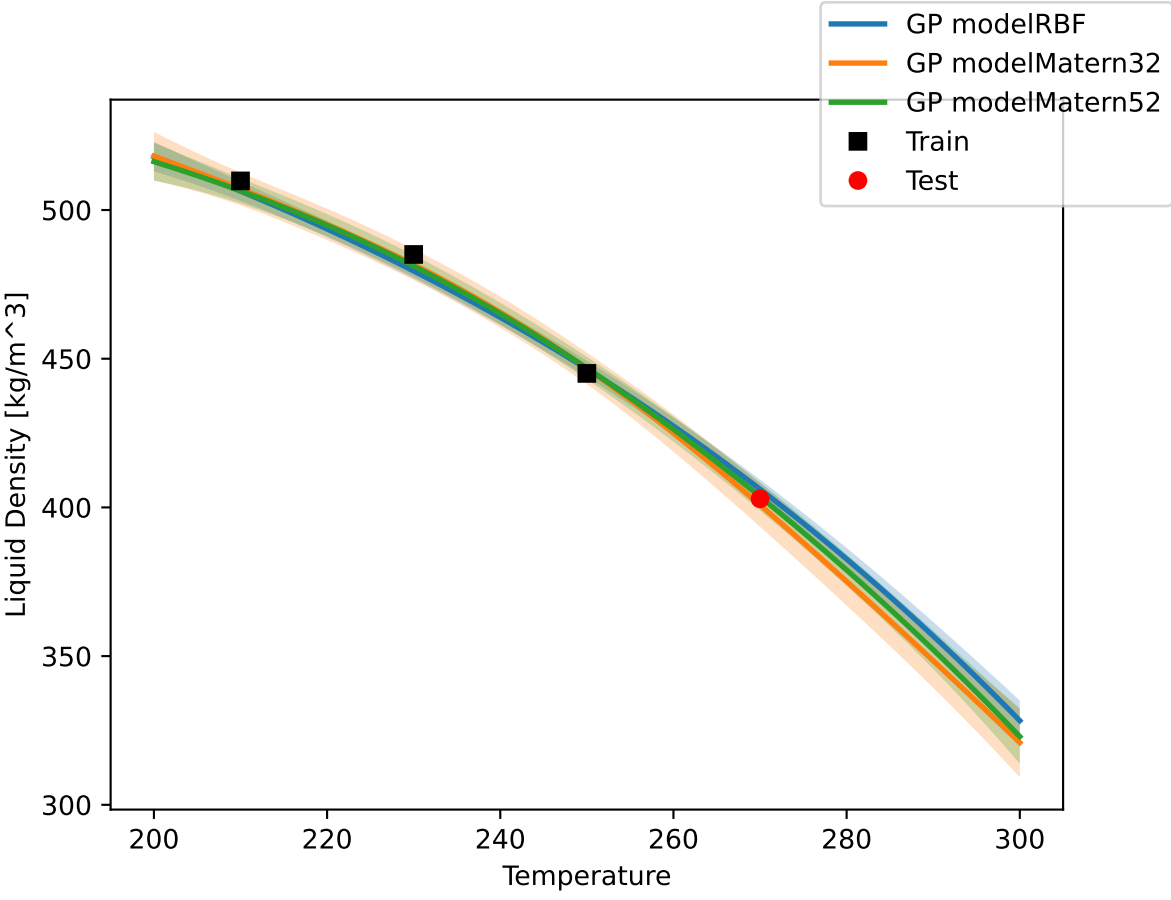
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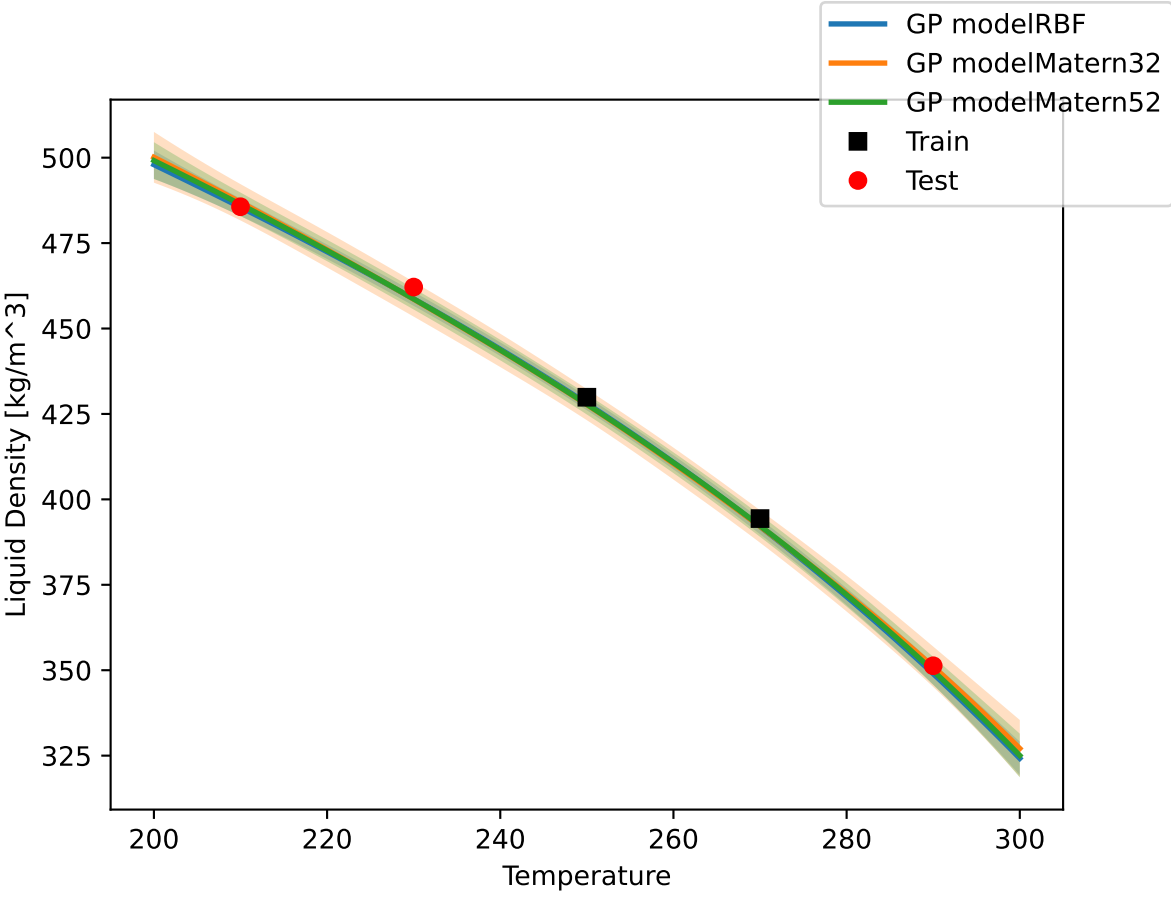
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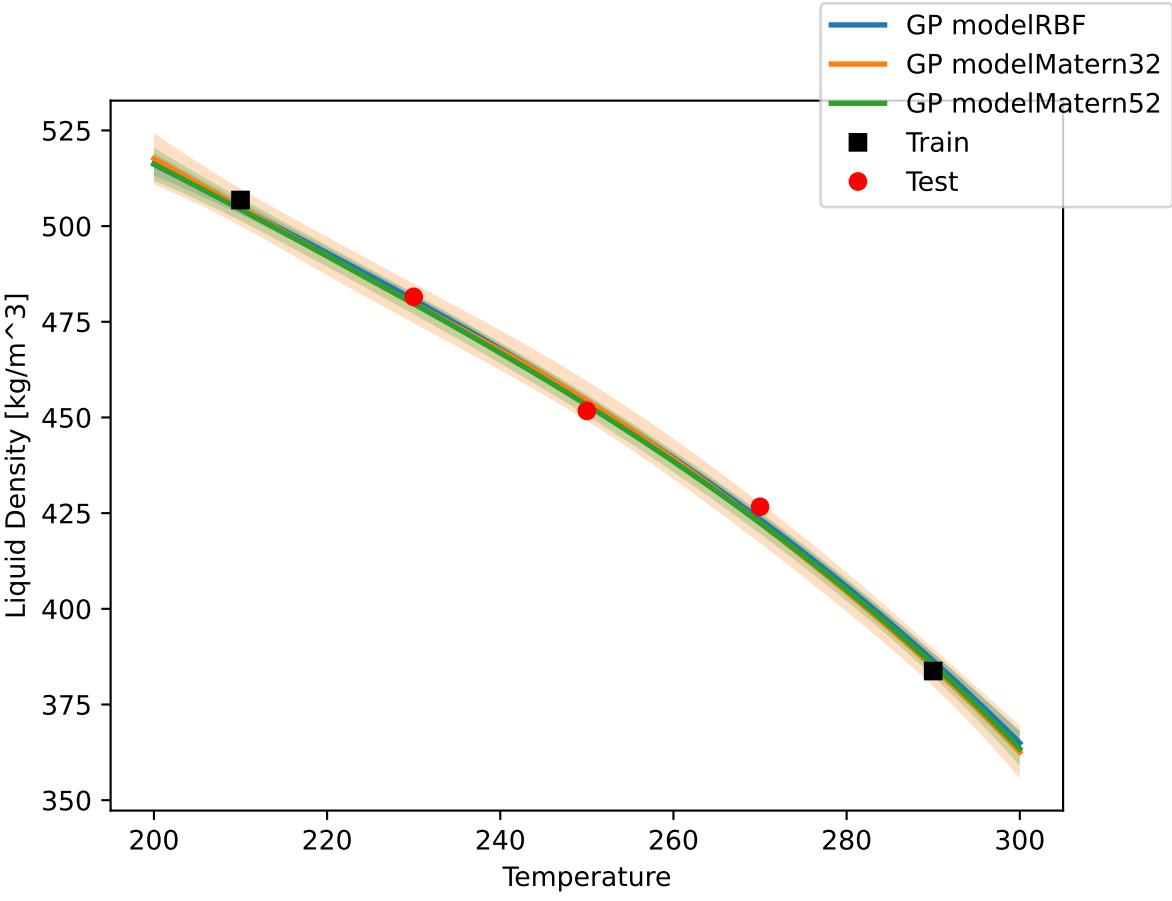
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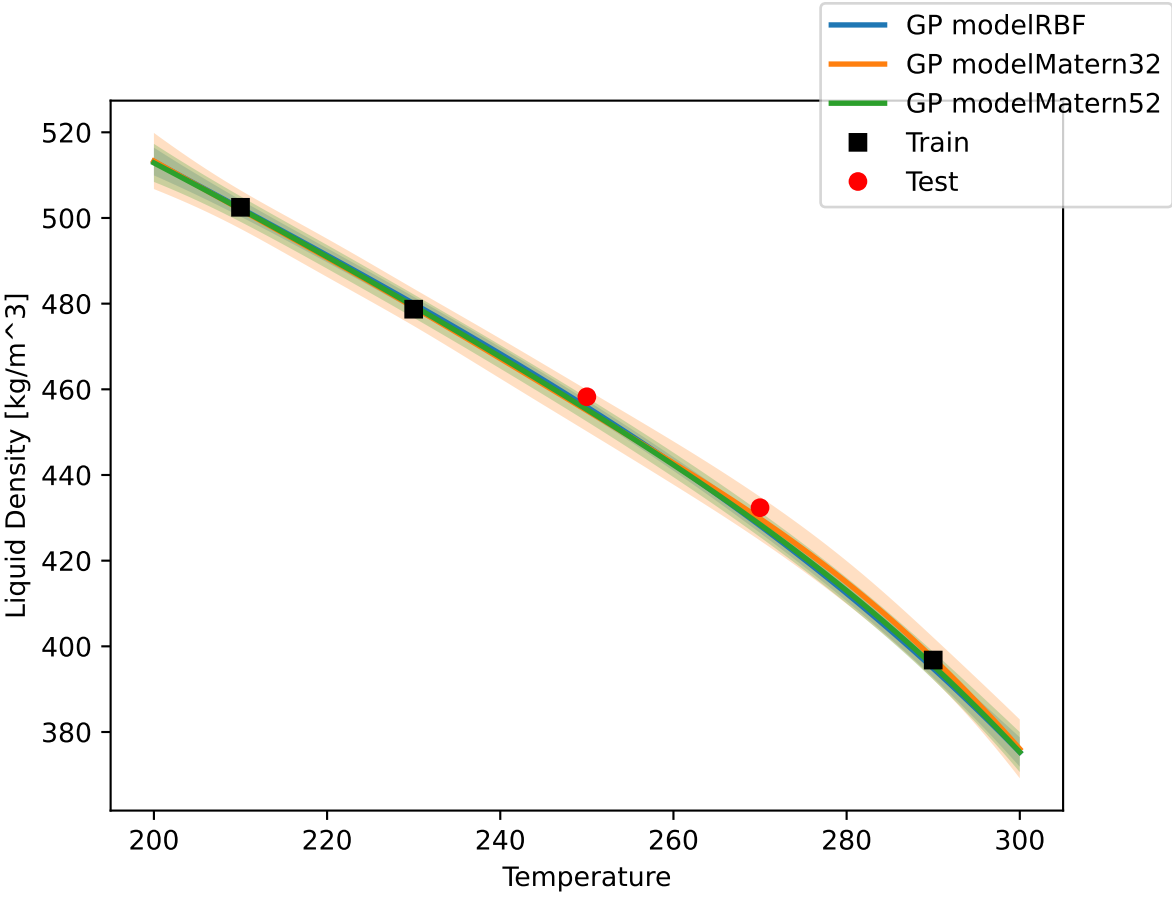
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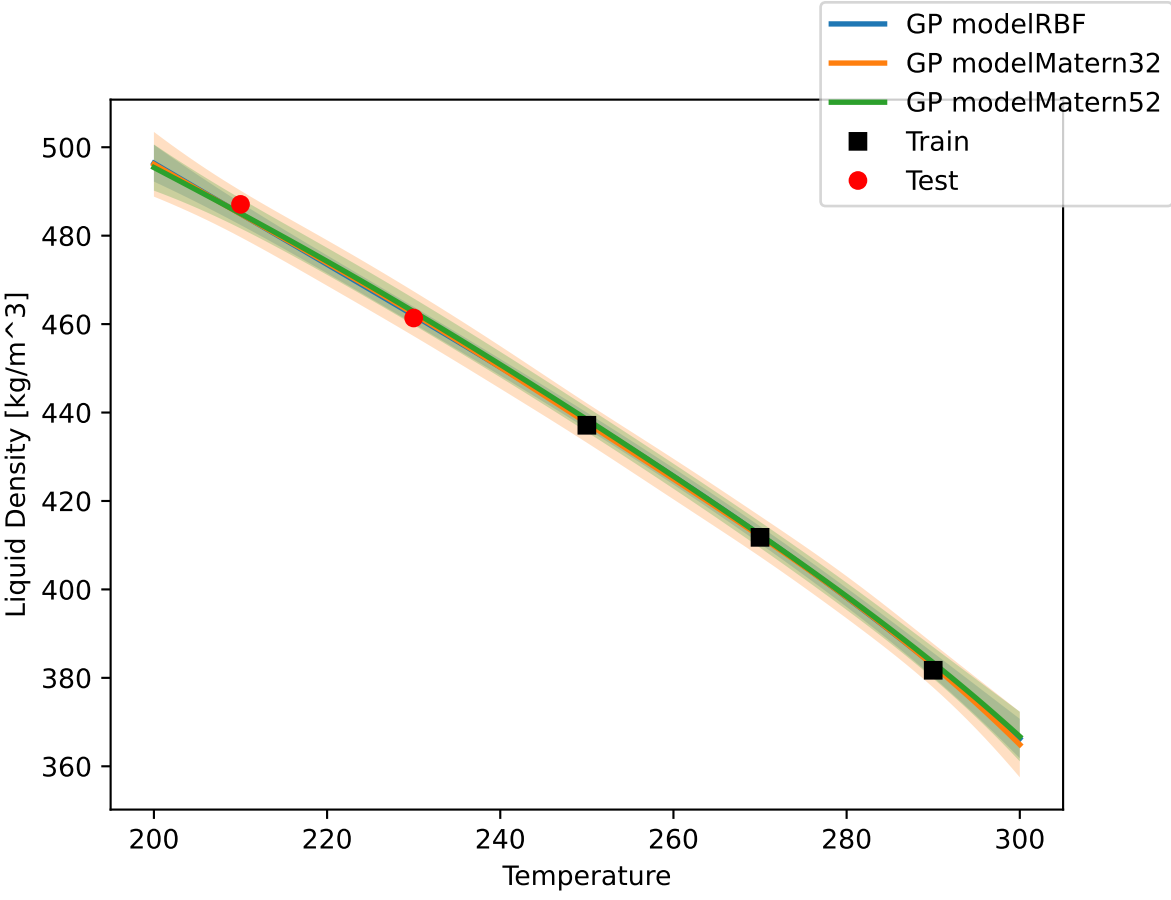
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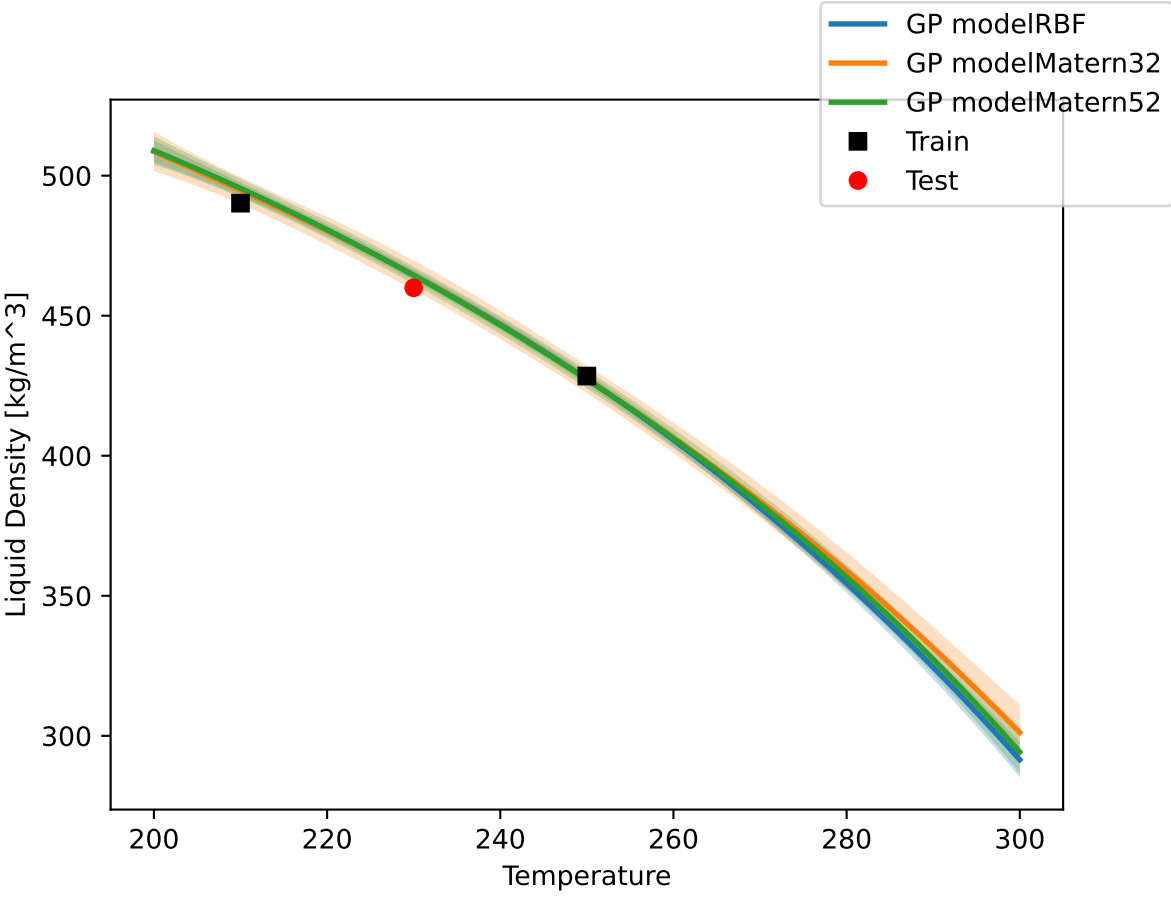
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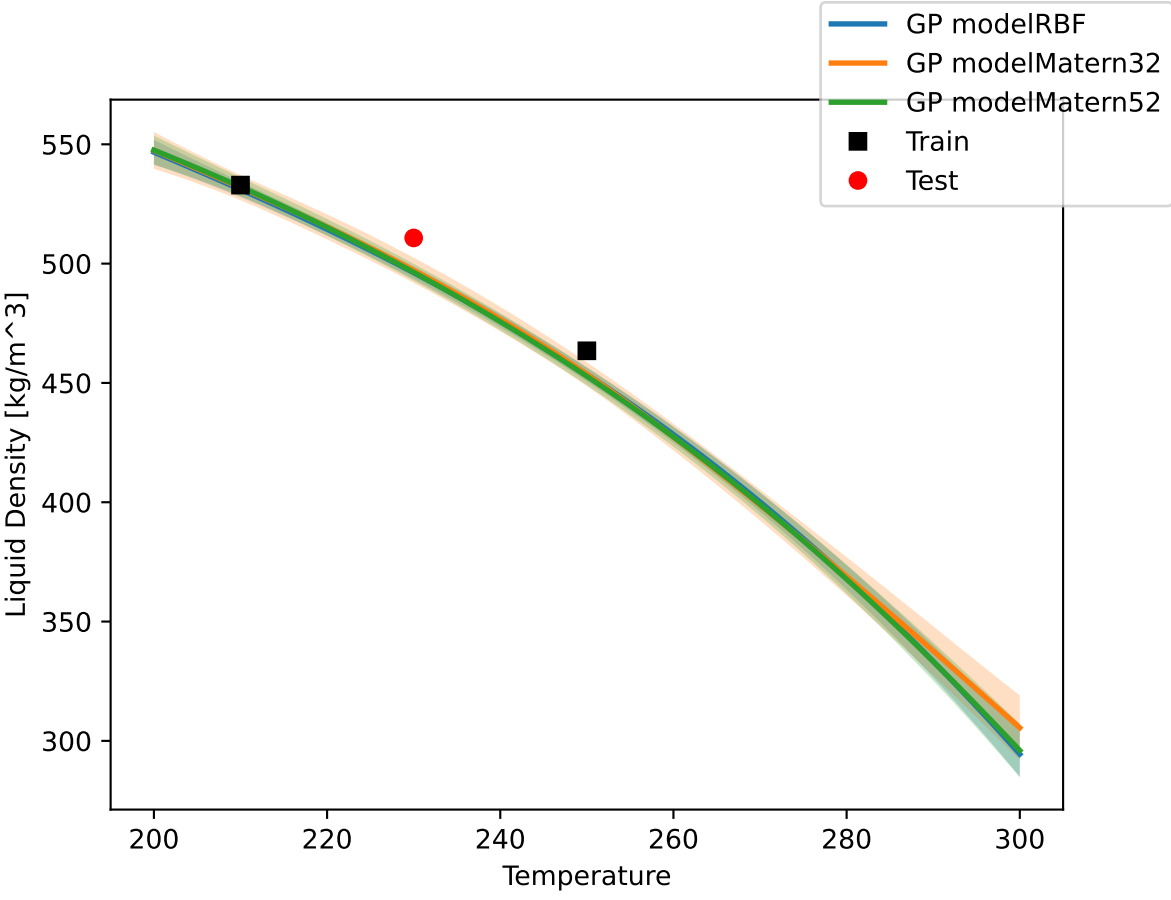
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