Predicting Optimal 3D Printing Materials
Using Machine Learning

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Layer Height(range 0.02-0.2)

0.06

Wall Thickness(range 1-12)

6

Infill Density(range 10-100)

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50

Infill Pattern: 0 for grid, 1 for honeycomb

0

Nozzel Temperature(range 200-250)

230

Bed Temperature(range 60-100)

80

Pirnt Speed(range 40-120)

40

Fan Speed(range 0-100)

100

Roughness(range 25-369)

98

Tension Strength(range 5-40)

15

Elongation(0.95-2.9)

0.95

Predict

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The Suggested Material is PLA.(PLA, also known as polylactic acid or polylactide, is a thermoplastic made from renewable resources such as corn starch, tapioca roots or sugar cane, unlike other industrial materials made primarily from petroleum)