

**Abbreviation Full Form**

<b>SFRC</b>	Steel Fiber-Reinforced Concrete
<b>ML</b>	Machine Learning
<b>XGBoost</b>	Extreme Gradient Boosting
<b>SHAP</b>	SHapley Additive exPlanations
<b>EDA</b>	Exploratory Data Analysis
<b>FRP</b>	Fiber-Reinforced Polymer
<b>HSC</b>	High-Strength Concrete
<b>RC</b>	Reinforced Concrete
<b>R<sup>2</sup></b>	Coefficient of Determination
<b>RMSE</b>	Root Mean Square Error
<b>MSE</b>	Mean Squared Error
<b>MAE</b>	Mean Absolute Error
<b>KN / kN</b>	Kilonewton
<b>MPa</b>	Megapascal
<b>SVM</b>	Support Vector Machine
<b>KNN</b>	K-Nearest Neighbors
<b>DT</b>	Decision Tree
<b>RF</b>	Random Forest
<b>GB</b>	Gradient Boosting
<b>AdaBoost</b>	Adaptive Boosting
<b>BIM</b>	Building Information Modeling
<b>fc</b>	Concrete Compressive Strength
<b>fy</b>	Yield Strength of Reinforcement
<b>b</b>	Beam Width
<b>d</b>	Effective Depth
<b>p</b>	Longitudinal Reinforcement Ratio

<b>av/d</b>	Shear Span-to-Depth Ratio
<b>Vf</b>	Fiber Volume
<b>F</b>	Fiber Factor
<b>ISSA-GRU</b>	Improved Sparrow Search Algorithm – Gated Recurrent Unit
<b>JN</b>	Journal (used in citation context)