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estimates of reserves and make informed decisions regarding field development the model represents the reservoir s physical space as an array of discrete cells the extreme gradient boosting xgboost regression model will be used to characterize the reservoir this model will be hybridised with other algorithms pca and rf lasso to identify relevant input features that will improve the prediction accuracy of xgboost in a siliciclastic hydrocarbon reservoir based on permeability and water saturation reservoir operation scheme for flood control was introduced into the global flood model operational rules and parameters were identified to represent the actual flood control operation developed reservoir operation scheme leads to improvement in discharge simulation during floods and significantly impacts flood mitigation plain language summary the proposed methodology for variogram interpretation and modeling provides a better more rigorous quantification of spatial variability which leads to improved flow models and management decisions improve with new material on practical applications lab analysis and real world sampling from wells to gain better understanding of pvt properties for crude and natural gas sharpen your reservoir models with added content on how to tune eos parameters accurately this study represents the first attempt to combine enkf with an integrated model that includes a genuine oil reservoir actual production wells a surface choke a surface pipeline a separator therefore this paper proposes a reservoir facies modeling method based on gans 1 for unconditional modeling select training images tis based on priori geological knowledge and use

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