



**Tapped Density** modelling using machine learning regression models

- Gradient Boosting Regression (GBR)
- Random Forest (RF)



## **AI-Based Process Models**

Strathclyde

**Digital Medicines** 

Manufacturing

INNOVATION

- *Efficiency:* Deep Neural Networks (DNNs) models were developed to predict porosity and tensile strength of directly compressed tablets using raw material properties, formulation, and process conditions, reducing the cost and time of



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