

The Power of Random March 19, 2019 – Berlin

	9:00 – 10:00	Registration, Coffee, Breakfast
Randomization Principles for Sampling	10:00 – 10:45	Simple Random Sampling, Stratified Sampling, Bootstrap Sampling (Cross Validation)
Datasets Overview	10:45 – 11:30	Description of Two Datasets: cup98 & Titanic Walk Through Data Definitions, Load Data into KNIME Create Statistics Nodes to Summarize Data
Randomization for Missing Value Imputation	11:30 – 12:00	Missing Values, Mean Imputation (Missing Value Node) Random Imputation Random Referential Imputation
Randomization in Building Models	12:00 – 12:30	Ensembles, Bagging Bagged Logistic Regression Random Forests
	12:30 – 1:30	Lunch
Randomization to Assess Confidence in Model Accuracy	1:30 – 2:30	Target Shuffling
Randomization to Assess Variable Importance	2:30 – 3:30	Input Shuffling
	3:30 – 4:00	Coffee Break
Randomization to Create Model Prediction Confidence Intervals	4:00 – 5:30	CI Background Metrics, e.g. Input Variable Selection, Logistics Regression Coefficients (as Baseline)
Summary	5:30 – 6:00	Examples Conclusions Q&A
	6:00 (close)	Free evening to explore Berlin

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