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| **1) Survival Analysis**   1. Joint Model 2. Multi-state Model 3. Competing Risks Model 4. Cure Model   **2) Data Mining & Big data**   1. Decision Tree 2. Machine Learning 3. Neural Network 4. Deep Learning   **3) Longitudinal Data Analysis**   1. Generalized Linear Mixed Models 2. Generalized Estimating Equations 3. Latent Transition Model 4. Growth Model   **4) Spatial analysis**   1. Spatio-Temporal Model 2. Spatial autoregressive processes and point processes 3. Geocomputational methods 4. Neural networks and fuzzy logic   **5) Multivariate Data Analysis**   1. Structural Equation Modelling (SEM) 2. Clustering 3. Reliability Analysis 4. Discriminant Analysis |