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Statistical modeling depends on predictor variables. Frequently out-of-the-box data is unable to reach its informative potential. Low rank and nearly low rank predictor matrices can wreck a model with over fitting. Not only does such a model give poor information, but it could have given strong results with proper data preparation. This talk will present techniques to improve your predictor matrices by making the vectors dissimilar to low rank matrices. (Received August 13, 2018)