Beyond the Poverty Line: Predicting Maternal Mortality in India

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Motivation

- More specific targeting of public health schemes
 allocation of scarce resources
- Currently, most schemes are targeted at Below-Poverty-Line (BPL) families.
- While the poorest states have the worst maternal mortality, the richest states do not have the best what are the other key determinants? (Bender, Theodossiou 2009, Munshi et al. 2016, Clemson et al. 2000)

Research Question

What are the key predictors of maternal mortality in India?

Data

- National Family Health Survey (NFHS): ~20,000 families - Individual-level variables such as previous pregnancies, lifestyle, access to healthcare, income, etc.
- District Level Health Survey (DLHS): district-level variables such as sanitation, spread of govt. hospitals, per capita income, access to public health schemes, etc.

Methodology

- Key Methods
 - Logistic Regression
 - Decision Trees
 - Comparison of predictive ability of individuallevel characteristics versus district-level characteristics
 - **Song, et al. 2004, Liu et al. 2014)**

Questions?