Baby's First Years: Which Maternal Factors Predict Child Health Outcomes?

Nasim Sheikhi, Olivia Floody, Riya Gurnani, Kelly Phalen



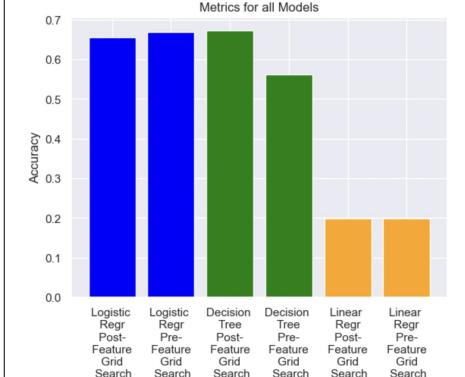
interventions

- BFY Study examines the impact of poverty and maternal health on child development
- Findings from this data can inform poverty reduction
- Objective: Examine which maternal factors predict child development and health

Methods

- Multiple linear regression with calculated overall child outcome as target
- Logistic regression & decision tree with binned target variable based on the median of the outcome
 - 2 categories: 'Good Health' & 'Poor Health'

Results



Model

Conclusion

Important features:Household income

- Household incomeMother's physical & mental
 - healthParenting stress
- Household relationships

Implications of 70% accuracySurvey length should be

- decreasedLimitation of study: Missing
- data
 - Shorter survey could collect more data
- Still is able to predict the outcome of child's health
- to determine what babies and mothers need most support
 Local government can use to

· Metrics of survey can be used

create and better allocate resources to these mothers