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Dedicated and detail-oriented individual with research experience seeking to contribute my skills and passion for modeling, simulation, and analyzing systems to a dynamic research team. Committed to advancing knowledge and making a meaningful impact through collaborative research projects.

Modeling, simulation, and analysis
Data analytics and visualization
High performance computing
Machine learning and artificial intelligence

Designed a methodology to reduce the number of input features by keeping the accuracy almost unchanged using permutation importance, random forest elimination with cross validation, and random forest importance features.

The number of computations due to reduced features was reduced significantly.

(Spring 2018)

Using the servo motor the mouth of the bin was automatized when the sensor sensed the presence of any person in front of it.

Gave three different signals in three different conditions such as bin full, bin half or bin empty.

(BS Final Project 2018)

Analyzed the power system of Mirpur Cantonment Area in MATLAB using Newton-Raphson and Gauss Seidel Method.

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