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The NASA Cubesat Cost Model

The "CubeSat Or Microsat Probabilistic and Analogies Cost Tool", or COMPACT, is a NASA Headquarters funded effort to fill the gap in cost estimating capabilities for CubeSats, as well as other Microsat spacecraft. The COMPACT team has been collecting mainly cubesat mission's technical, programmatic, and cost data to date from various NASA sponsored programs led by NASA, research laboratories, and/or universities. The COMPACT team has developed a prototype cost modeling approach using k-nearest neighbors (k-NN). This approach can be used in early concept maturity study phase to get a ballpark cost estimate grounded by historic actual costs and design. The presentation will demonstrate the use of k-NN with COMPACT data on its web base platform.