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## Machine Learning for Accelerator Reliability and Availability

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Machine Learning has had successes in several applications, from computer vision to anomaly detection, using both supervised and unsupervised learning techniques. These techniques can also be applied to reliability engineering, and have already been used in fields such as aerospace and manufacturing for predictive maintenance, fault detection and diagnosis. This talk will first provide a review of supervised and unsupervised learning techniques, such as regression analysis, classification and anomaly detection which will be followed by a Python tutorial which will apply these techniques to data from various scenarios.

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