

@MIT Mathematics of Big data and Machine learning course 1

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Algorithms is covered in the course - Gaussian mixture model in speech processing - Unsupervised reinforcement learning - Dimensional deduction techniques - Hidden Markov model - Statistical machine learning translation algorithms - Mixture of experts algorithms - CNN - Q learning algorithm - Cyber network data processing - Anomaly detection : statistics(patterns, distribution, dimension analysis), clustering(set of features / k means), distance based(KNN), ANN(background model - deviations / replicator neural network) - Synthetic attack generation - Pipeline for cyber network anomaly detection - SHannon entropy - Tech stack - Enterprise intelligence > autonomous system, healthcare, agri, edu, investment, legal, logistics, materials, retail finance, security - Recursive neural net - Replicator neural net - Activation function tends to work well with specific application - Classify network attack from real internet traffic - Data and feature engineer with network data - Data projection -