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In this work we obtain strong Korovkin-type approximation theorems for stochastic processes by using the concept of A-statistical convergence from summability theory. One application of our results, when  $A=I$  the infinite identity matrix, recovers earlier results of the first author regarding Korovkin type Approximation theory for Stochastic Processes with respect to  $L_p$  norm. (Received July 16, 2008)