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The goal of machine learning is to program computers to use example data or past experience to solve a given problem.

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Ethem Alpaydın is Professor in the Department of Computer Engineering at Özyegin University and a member of the Science Academy, Istanbul. He is the author of the widely used textbook, Introduction to Machine Learning (MIT Press), now in its fourth edition.

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## **Ethem Alpaydin | The MIT Press**

Lecture Notes for E Alpaydin 2004 Introduction to Machine Learning © The MIT Press (V1.1) 5 Subset Selection There are  $2^d$  subsets of  $d$  features  
Forward search: Add the best feature at each step Set of features  $F$  initially  $\emptyset$ . At each iteration, find the best new feature  $j = \operatorname{argmin}_i E(F \cup \{i\})$  Add  $x_j$  to  $F$  if  $E(F \cup \{j\}) < E(F)$

## **INTRODUCTION TO Machine Learning**

Introduction to Machine Learning is a comprehensive textbook on the subject, covering a broad array of topics not usually included in introductory machine learning texts. It discusses many methods based in different fields, including statistics, pattern recognition, neural networks, artificial intelligence, signal processing, control, and data mining, in order to present a unified treatment of machine learning problems and solutions.

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Machine learning is programming computers to optimize a performance criterion using example data or past experience. We need learning in cases where we cannot directly write a computer program to solve a given problem, but need example data or experience.

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□Machine learning is programming computers to optimize a performance criterion using example data or past experience. □There is no need to “learn” to calculate payroll □Learning is used when: □Human expertise does not exist (navigating on Mars),

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