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1. Classification

- Inputs u_1, u_2, \dots and discrete classes C_1, C_2, \dots, C_k
- Training examples: $(u_1, C_2), (u_2, C_7)$, etc.
- Learn the mapping from an arbitrary input to its class
- Example: Inputs = images, output classes = face, not a face

2. Regression

- ▶ Inputs u₁, u₂, ... and continuous outputs v₁, v₂, ...
- Training examples: (input, desired output) pairs
- Learn to map an arbitrary input to its corresponding output

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- Example: Highway driving
 - Input = road image, output = steering angle

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