

# Poker Hand Induction

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# Problem:

- Given 5 playing cards, what poker hand do they represent?
- Data given in the form  $\langle r_1, s_1, r_2, s_2, \dots, r_5, s_5 \rangle$ 
  - ▶  $r_n$  is the value of the  $n^{\text{th}}$  card in the hand
  - ▶  $s_n$  is the suit of the  $n^{\text{th}}$  card in the hand

# Methods:

- Random Guessing
- Softmax Linear Regression
- Dense Neural Network
- Convolutional Neural Network

## Results:

Model	Test PC
Random Guessing	0.34535
Linear Regression	0.48528
Dense NN	0.99126
Convolutional NN	