Comparing to human-level performance

Surpassing human-level performance

Surpassing human-level performance

Team of humans 0.5%

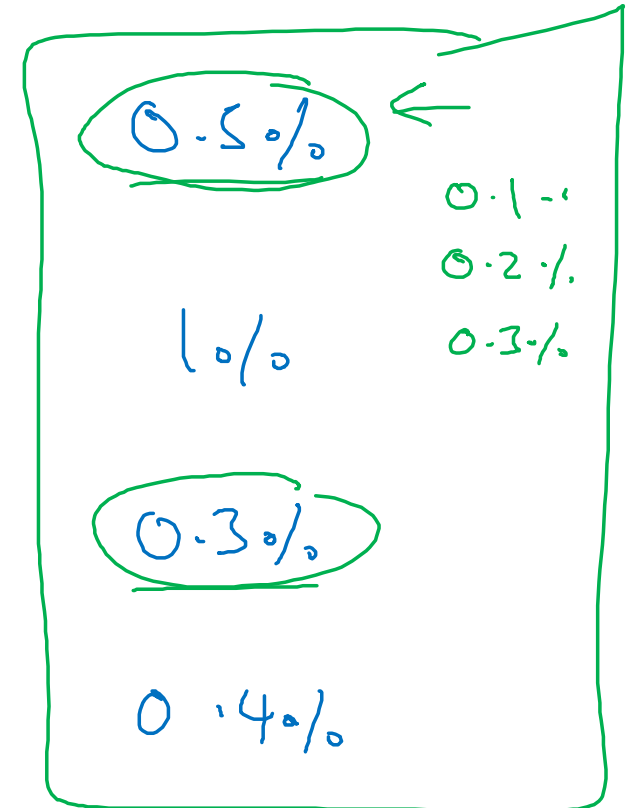One human   ~~1%~~ 0.1

Training error 0.6%

Dev error 0.8% 0.2

What is avoidable bias?

0.5% 0.1%

   0.2%

1% 0.3%

0.3%

0.4%

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Problems where ML significantly surpasses human-level performance

→ - Online advertising

→ - Product recommendations

→ - Logistics (predicting transit time)

→ - Loan approvals

Structured data

Not natural perception

Lots of data

{ - Speech recognition

- Some image recognition

- Medical

     - ECG, Skin cancer, ...

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