Machine Learning Hands on

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Hello :)

Evelina Gabašová
@evelgab

You?

- Who is...
  - .NET developer
  - F# developer
  - Data science / machine learning

- Let's say hi to each other!

This workshop

- Machine Learning is a huge topic
- 4 hours isn't much time…

Expectations

- Mostly beginners in Machine Learning

Hands-on learning

- Hacking on real-world problems
- Get a feel for what it is to "do machine learning"
- Learn simple ideas that can be extended
- Cover a selection of different areas
- Avoid jumping into libraries & frameworks

What is machine learning?

- Writing a program to perform a task
- With more information, the program performs the task better
- <u>Without having to change the code</u>

A couple of comments

- Relevant to developers
- Similar and different from "regular coding"
- Less complicated than it seems

Areas of machine learning

- Classification vs. Regression
  - Predict what class it belong to (ex: Spam, not Spam)
  - Predict a number (ex: price)
- Supervised vs. Unsupervised
  - Unsupervised: tell me something about my data

The plan

- Language recognizer
  - Supervised classification task

Questions?

tinyurl.com/openfsharp-ml