Exploratory Data Analysis

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What is Exploratory Data Analysis?

What is EDA

Exploratory Data Analysis is
an approach to analyzing data sets to summarize their main
characteristics, often with visual methods. (wikipedia `https://en.wikipedia.org/wiki/Exploratory_data_analysis`)

Goals of EDA

The focus is on the data, not the model

- Learn about the data, underlying structure
- Generate questions
- help decide what sort of model fits

What EDA is not

Quantitative tests and models that impose assumptions (normality, etc.)

- Hypothesis testing, statistical inference
- Model Specification (regressions, ANOVA)
- Parameter estimation

What EDA is not

Examples

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- 5-number summary
- plots
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