

PYTHON TOOLS FOR DATA SCIENTISTS|

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STRV

PROGRAMME

1. DS introduction
2. Python tools
3. Example

DS INTRODUCTION

01

1) WHAT IS A DATA SCIENCE?

1) WHAT IS A DATA SCIENCE?

“Data science is the science of uncovering patterns, trends, and valuable information from vast amounts of raw data. It generates meaning from data.”

The internet

2) WHAT DATA SCIENTISTS DO?

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1. Understand business and task

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2) WHAT DATA SCIENTISTS DO?

1. Understand business and task
2. Understand data
3. Process data
4. Analyze/model data

2) WHAT DATA SCIENTISTS DO?

1. Understand business and task
2. Understand data
3. Process data
4. Analyze/model data
5. Evaluate the results



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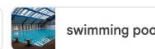
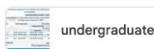
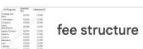
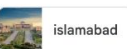
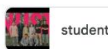
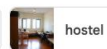
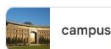


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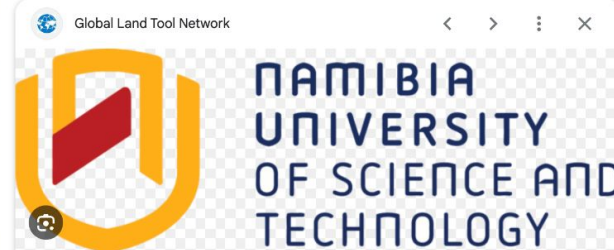
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Ahoj! Líbí se ti tato
přednáška? ×

Hallo! Hou jy van
hierdie lesing?



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3) WHY IS DATA SCIENCE IMPORTANT?

3) WHY IS DATA SCIENCE IMPORTANT?

1. It saves resources.
2. It improves decision making.
3. It fosters innovation.

PYTHON TOOLS

02

2) WHAT DATA SCIENTISTS DO?

1. Understand business and task
2. Understand data
3. Process data
4. Analyze/model data
5. Evaluate the results

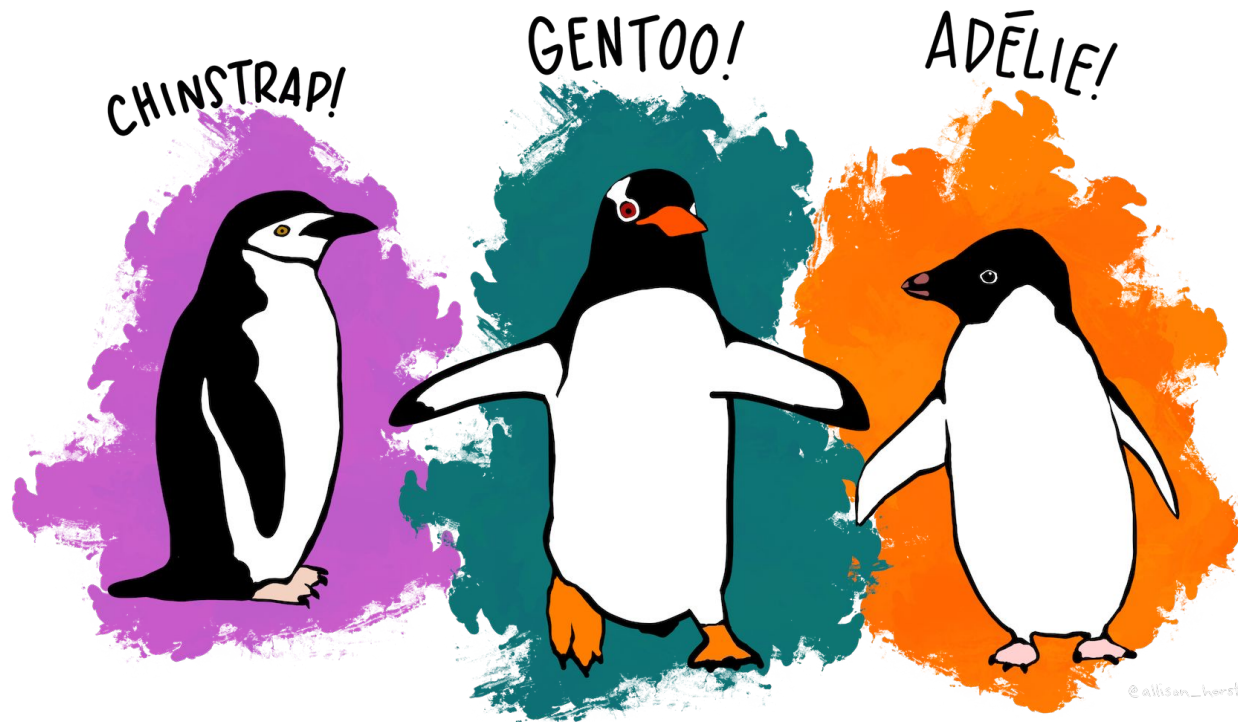
2) WHAT DATA SCIENTISTS DO?

1. Understand business and task
2. Understand data
3. **Process data — 80 % of time**
4. **Analyze/model data – 20 % of time**
5. Evaluate the results



EXAMPLE

03

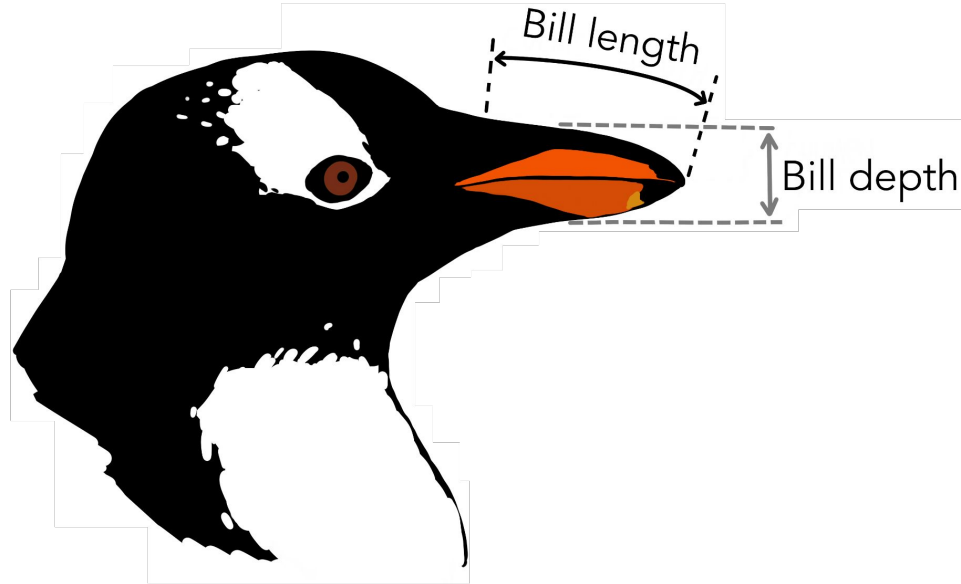


Artwork by: [Allison Horst](#)

```
>> print(penguins)
```

```
shape: (344, 6)
```

penguin_id	date	species	bill_length	bill_depth	sex
---	---	---	---	---	---
str	str	str	f64	f64	str
N1A1	2007-11-11	adelie	39.1	18.7	MALE
N1A2	2007-11-11	adelie	39.5	17.4	FEMALE
N2A1	2007-11-16	adelie	40.3	18.0	FEMALE
N2A2	2007-11-16	adelie	null	null	null
N3A1	2007-11-16	adelie	36.7	19.3	FEMALE
...
N38A2	2009-12-01	gentoo	null	null	null
N39A1	2009-11-22	gentoo	46.8	14.3	FEMALE
N39A2	2009-11-22	gentoo	50.4	15.7	MALE
N43A1	2009-11-22	gentoo	45.2	14.8	FEMALE
N43A2	2009-11-22	gentoo	49.9	16.1	MALE



THANK YOU!

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