



# ArabiStat

Statistical Analysis and Consulting

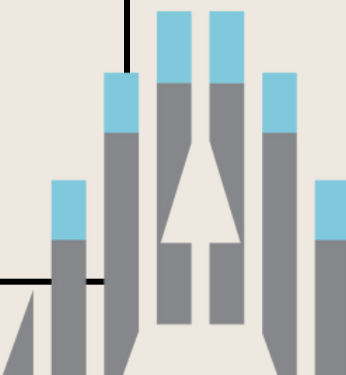


## Using AI in HealthCare Data Analysis (Python)

Level 1  
“24 hrs”

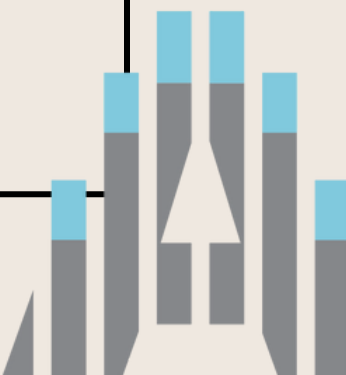
# Python programming 1

Lecture	Lecture Title	Content	Health care المجال الطبي
I	Data Types structure	<ol style="list-style-type: none"><li>1. Introduction<ul style="list-style-type: none"><li>• Why python</li><li>• Offline IDEs</li><li>• Online IDEs</li><li>• Variable assignment rules</li></ul></li><li>2. Data types<ul style="list-style-type: none"><li>• Numeric (Types, operation)</li><li>• Strings(operations, methods and functions)</li><li>• Lists (indexing and slicing, basic operations, methods and functions)</li><li>• Dictionaries</li><li>• Tuples</li><li>• Sets and booleans</li><li>• Chained comparison operators</li></ul></li></ol>	Health indicators data



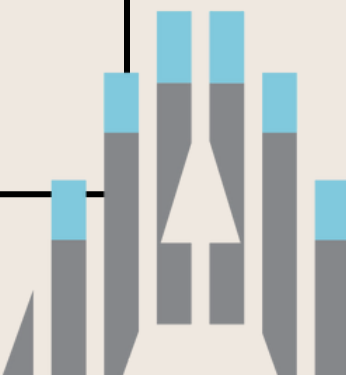
# Python programming 1

Lecture	Lecture Title	Content	Health care المجال الطبي
I	Python conditions and loops	<ul style="list-style-type: none"><li>• Conditional statements (if, elif, else)</li><li>• While loops</li><li>• For loops</li><li>• Integrating loops with conditions</li><li>• Break, continue &amp; pass</li><li>• List comprehensions</li><li>• Useful operators</li></ul>	Health indicators data



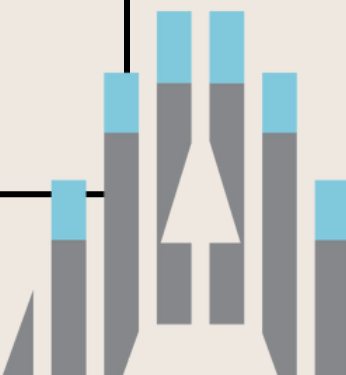
# Python programming 1

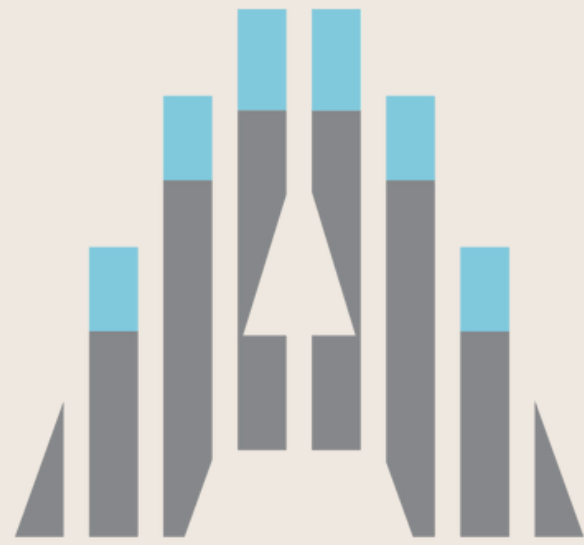
Lecture	Lecture Title	Content	Health care المجال الطبي
III	Python functions and methods	<ul style="list-style-type: none"><li>• Python methods</li><li>• Creating functions</li><li>• Local and global variables</li><li>• Usefiul operatros (range, enumerate, zip,in,mim, max, random operators, input)</li></ul>	Health indicators data



# Python programming 1

Lecture	Lecture Title	Content	Health care المجال الطبي
IV	Pandas	<ul style="list-style-type: none"><li>• Packages and modules</li><li>• Creating data frames</li><li>• Exploring data frames</li><li>• Selecing rows and columns</li><li>• Column operations</li><li>• Rows operations</li><li>• Changing values in a dataframe reategorizing numeric values</li><li>• Summerizing data</li></ul>	Health indicators data





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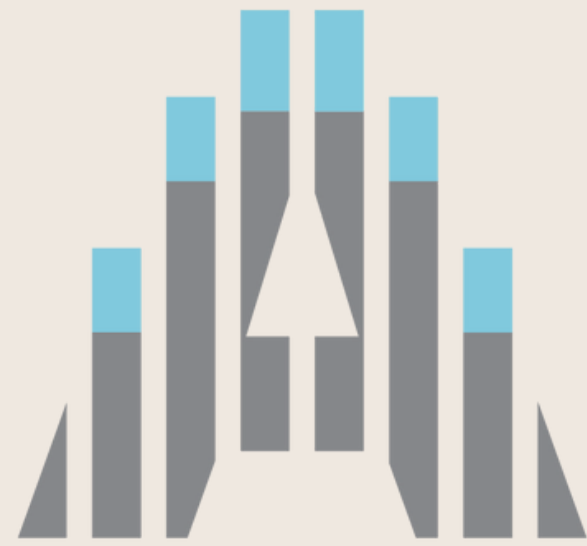
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# ArabiStat

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## Instructor

**Dr. Mariam Metawe'e DataScientist**

### Education

#### Statistics

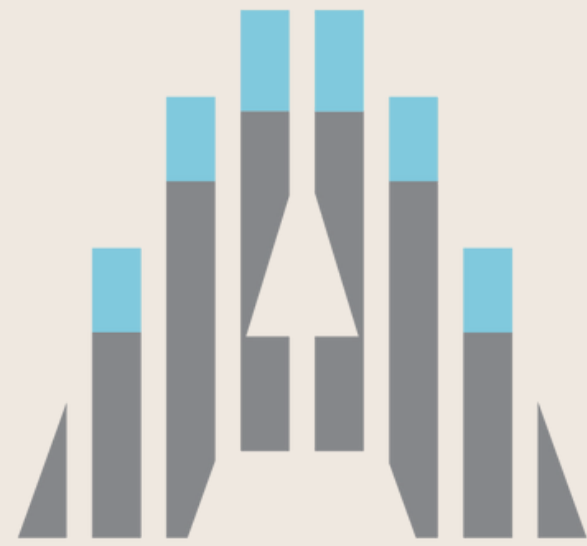
- PhD in statistics (on progress)
- Master degree in Statistics
- Two years diploma in mathematics and statistics

#### Medicine

- Master degree in Experimental medicine and drug design
- Diploma in Experimental medicine
- Bachelor degree in Veterinary medicine.

### Programming

- Machine Learning with python - Best Developer at ElectroPI
- Certified data analysis using python from DataCamp
- R programming in FGSSR



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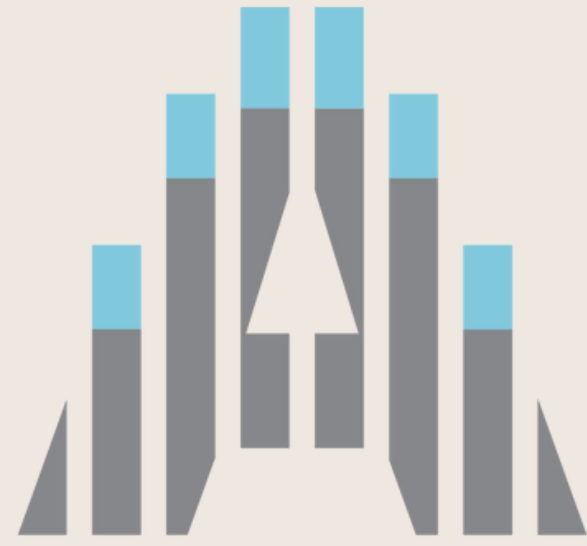
### About

**Academic and Practical experience in Two Majors: Veterinary Medicine and Data Science. Over 10 years experience in data analysis of Biological data, and over 1000 hours teaching DataScience (programming using Python or R, Statistics and Machine Learning).**



<https://www.linkedin.com/in/mariam-metawe-e-13864656/>





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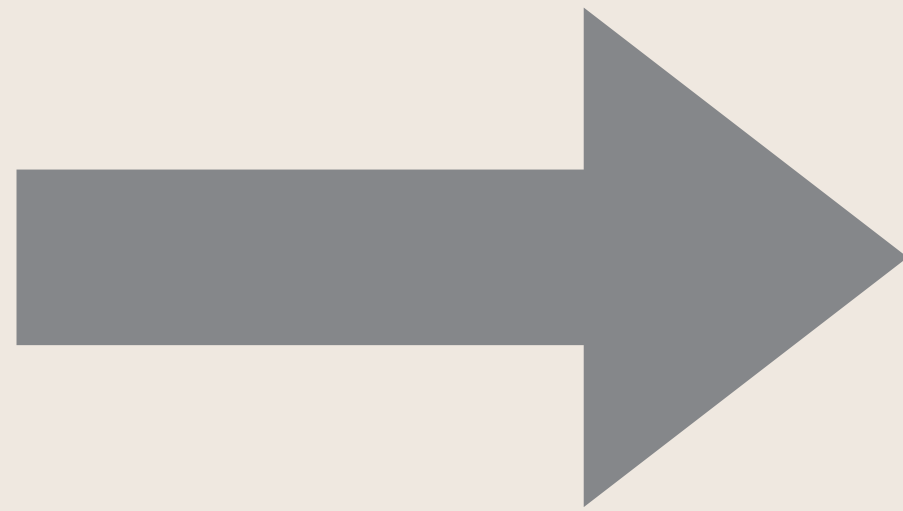
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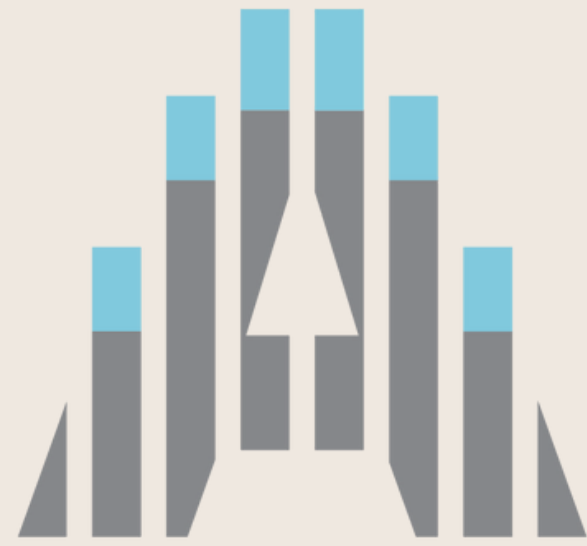
# Who

## Should Enroll in this Program?

Individuals who are interested in leveraging artificial intelligence (AI) and Python programming for data analysis in the healthcare industry.

- **Healthcare Professionals:** Healthcare professionals such as doctors, nurses, pharmacists.
- **Data Scientists in Healthcare**
- **Medical Researchers**
- **Health Informatics Specialists**
- **Students and Researchers**
- **Professionals Transitioning to Healthcare**

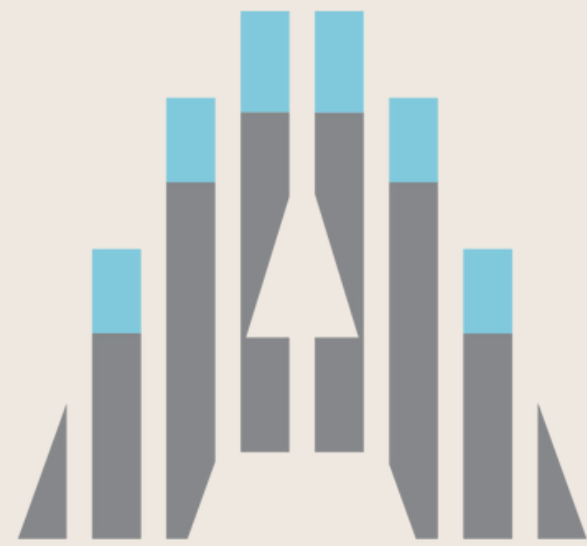




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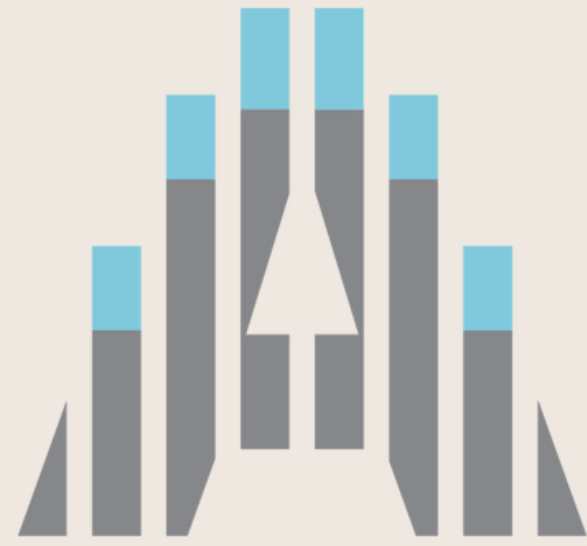
**Overall, the "Using AI in Healthcare Data Analysis (Python)" course is ideal for individuals with a background in healthcare, data analysis, or related fields who are interested in applying AI techniques to analyze healthcare data and improve patient outcomes.**



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**ArabiStat combines the power of statistical and mathematical knowledge along with the efficiency of programming.**



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big  
Thanks!