



# MASTER YOUR DIGITAL SKILLS

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Exploring Data Science  
and AI in Analytics with  
Python

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Artificial Intelligence (AI)

*JOIST Innovation Park*



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# SEMINAR OVERVIEW

This webinar course will cover data science and AI using Python. Participants will be taught to preprocess data, implement classification and clustering algorithms, and create compelling visualizations to enhance data analytics and extract valuable insights.



## TARGET AUDIENCE

This webinar course is primarily designed for aspiring data scientists, software developers, data analysts, and business intelligence professionals who are keen on mastering data science and AI using Python. It is also ideal for students, researchers, and industry professionals who wish to enhance their data analytics skills and extract valuable insights through data preprocessing, classification, clustering, and visualization techniques. Additionally, anyone with an interest in exploring and applying data science concepts will find this course beneficial.

# COURSE DESCRIPTION

This comprehensive webinar course delves into the essentials of data science and artificial intelligence (AI) using Python, designed for both beginners and intermediate learners.

- **Data Preprocessing:** Learn techniques to clean, normalize, and prepare raw data for analysis, ensuring high-quality inputs for models.
- **Classification Algorithms:** Explore various classification methods, including decision trees, random forests, and logistic regression, to categorize data effectively.
- **Clustering Techniques:** Understand and apply clustering algorithms such as K-means and hierarchical clustering to group similar data points and uncover hidden patterns.
- **Data Visualization:** Gain skills in creating insightful and compelling visual representations of data using libraries like Matplotlib and Seaborn.

# COURSE INFO

<b>Location</b>	<b>Online</b>
<b>Date</b>	<b>17.06.2024</b>
<b>Time</b>	<b>12:00 - 14:00 (EEST Time)</b>
<b>Duration</b>	<b>2 hours</b>
<b>Cost</b>	<b>No cost</b>



# Aris Vrahatis

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Aris Vrahatis is an Assistant Professor of Artificial Intelligence in Modeling Complex Systems, in the Department of Informatics, Ionian University, Corfu, Greece, and a member of the Bioinformatics and Human Electrophysiology Laboratory in the same Department. He received his Ph.D. in 2016 from the Department of Computer Science and Engineering, University of Patras, Greece, where he graduated in 2011 and received his M.Sc. Diploma in the program 'Computer Science and Technology' in 2012. He has more than 80 publications in journals and conference proceedings, including Oxford Bioinformatics, BMC genomics, IEEE journal of biomedical and health informatics, and Cellular and molecular life sciences. He has worked for more than 15 years in research and development projects, funded by the EU and other bodies.



# Konstantinos Lazaros

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Konstantinos Lazaros obtained his degree from the Department of Computer Science and Biomedical Informatics, University of Thessaly, Greece. He is currently a master's degree student at the inter-university Master's Degree Programme "Bioinformatics and Neuroinformatics". His research interests are data science, machine and deep learning and their applications on biomedical data.





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M. [projects@ied.eu](mailto:projects@ied.eu)  
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This document was produced in the course of the Level Up project, which received funding from the Digital Europe Programme (DIGITAL) of the European Union under Grant Agreement no 101100679.

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