



UNIVERSITÀ  
DEGLI STUDI  
DI BERGAMO

Dipartimento  
di Scienze Economiche



# STAT-HACKATHON

4<sup>th</sup> Edition

**May 30<sup>th</sup> -31<sup>st</sup>, 2024**

The Stat-Hackathon is a two-day initiative (sponsored by the Dept. of Economics) during which teams of students will compete in coding for statistical analysis, modelling and data visualization. The real case studies and the datasets analysed by the teams are provided by the five partner companies involved in the initiative.



[www.agos.it](http://www.agos.it)



[www.capgemini.com](http://www.capgemini.com)



<https://medium.com/digita>



[www.groupm.it](http://www.groupm.it)



[www.intwig.it](http://www.intwig.it)



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# PROGRAM

## DAY 1 – 30<sup>th</sup> May 2024 – ROOM 16

- 09:30 – 09:40: welcome address.
- 09:40 – 10:55: **presentation** of the case studies by the partner companies:
  - 09:40 – 09:55: InTwig
  - 09:55 – 10:10: Dig:ita
  - 10:10 – 10:25: Capgemini Invent
  - 10:25 – 10:40: GroupM
  - 10:40 – 10:55: Agos
- 10:55 – 11:00: random **matching** teams-companies.
- 11:00 – 12:30: the student teams meet the matched companies for discussing about the case study and the dataset.
- 12:30 – 13:30: Let's have **lunch** together before starting the challenge.
- 13:30: **Let's start the hackathon!** All day and night long, students will work in a group at the case study. There will also be the possibility to interact with the companies' tutors in case of problems or doubts by using MS Teams or other collaboration software (e.g., Slack).

## DAY 2 – 31<sup>st</sup> May 2024 – ROOM 15 (Sala Bertocchi)

- 11:00 – 12:20: **presentations** of the teams' projects:
  - 11:05 – 11:20: Team 1 Machine Gun Learning
  - 11:20 – 11:35: Team 2 Hyperstars
  - 11:35 – 11:50: Team 3 BayesBusters
  - 11:50 – 12:05: Team 4 Random Forest Gump
  - 12:05 – 12:20: Team 5 The Gematrists
- 12:20-12:50: meeting of the **evaluation** committee.
- 12:50-13:00: **award ceremony** and delivery of prizes to winners.



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## EVALUATION

The teams' projects will be evaluated by a committee on the basis of different quality criteria. These include, but are not limited to:

- Complexity of the problem and of the data
- Quality of the analysis and the final presentation
- Creativity in combining different statistical methods successfully
- Capability to use different software and statistical/data science methods efficiently

The members of the **evaluation committee** are:

- Raffaele Argiento, University of Bergamo
- Michela Cameletti, University of Bergamo
- Luca Mancini, Agos
- Michele Nanetti and Erik Wensflet, Capgemini Invent
- Edoardo Cella and Farzaneh Shahrezaei, Dig:ita
- Gianluca Calzati, GroupM
- Fabio Moretti and Aldo Cristadoro, InTwig

## PRIZES

The three winning teams are entitled to receive prizes provided by the Department of Economics of University of Bergamo:

- First prize: UniBg backpack
- Second prize: UniBg thermic water bottle
- Third prize: UniBg cup

## RULES

Each participant acknowledges that the dataset, including all its copies, reproductions or parts, is and will remain the exclusive property of the partner company that has provided it. Each participant undertakes (i) to keep the dataset strictly confidential and not to disclose it to third parties; (ii) not to make improper use of it; (iii) not to copy it, reproduce it or keep it, in any form and by any means; (iv) to remove it from his/her machine and any support and/or material in his/her possession at the end of the competition; (v) not to allow third parties to access, copy or reproduce it; as well as (vi) to grant the partner company the right to implement the proposed solutions for the problem presented. To this end, each participant undertakes to transfer definitively to the partner company any data, information, source code, in any form, concerning the analysis developed during the hackathon and the corresponding output.