

First ML-INFN Hackathon



Report of Contributions

Contribution ID: 1

Type: **not specified**

What is Machine Learning and why it is relevant to INFN

Monday, June 7, 2021 9:20 AM (50 minutes)

Presenter: BONACORSI, Daniele (BO)

Session Classification: Introduction

Contribution ID: 2

Type: **not specified**

Neural Networks: principles and common architectures

Monday, June 7, 2021 10:10 AM (1h 5m)

Presenter: GIAGU, Stefano (ROMA1)

Session Classification: Introduction

Contribution ID: 3

Type: **not specified**

Cloud Computing and Cloud-INFN

Session Classification: Introduction

Contribution ID: 4

Type: **not specified**

INFN-Cloud, and how to use it for ML_INF

Monday, June 7, 2021 11:30 AM (1 hour)

Presenter: SPIGA, Daniele (PG)

Session Classification: Introduction

Contribution ID: 5

Type: **not specified**

Playing with CERN Open Data with numpy, pandas and pyplot

Presenter: ANDERLINI, Lucio (FI)

Session Classification: Hands-on

Contribution ID: 6

Type: **not specified**

Hands-on - Playing with CERN Open Data with numpy, pandas and pyplot

Monday, June 7, 2021 1:45 PM (1h 15m)

Presenter: ANDERLINI, Lucio (FI)

Session Classification: Hands-on

Contribution ID: 7

Type: **not specified**

Introduction to keras

Monday, June 7, 2021 3:00 PM (30 minutes)

Presenters: RIZZI, Andrea (PI); RIZZI, Andrea (INFN Pisa)

Session Classification: Hands-on

Contribution ID: 8

Type: **not specified**

Hands-on - Introduction to keras

Monday, June 7, 2021 3:30 PM (45 minutes)

Presenters: RIZZI, Andrea (INFN Pisa); RIZZI, Andrea (PI)

Session Classification: Hands-on

Contribution ID: 9

Type: **not specified**

ML Basics: hands-on on a simple categorization example in HEP

Tuesday, June 8, 2021 9:30 AM (45 minutes)

Presenter: ANDERLINI, Lucio (FI)

Contribution ID: **10**

Type: **not specified**

ML for applications in medical physics of INFN interest

Tuesday, June 8, 2021 12:30 PM (30 minutes)

Presenter: RETICO, Alessandra (PI)

Contribution ID: 11

Type: **not specified**

ML for applications in High Energy Physics

Tuesday, June 8, 2021 9:00 AM (30 minutes)

Presenter: DORIGO, Tommaso (PD)

Contribution ID: 12

Type: **not specified**

Discrimination of hadronic jets from light and heavy flavours @ LHC

Wednesday, June 9, 2021 9:00 AM (10 minutes)

Presenter: BOCCALI, Tommaso (PI)

Session Classification: Hackathon introduction

Contribution ID: 13

Type: **not specified**

Autoencoders for VIRGO GW signal analysis

Wednesday, June 9, 2021 9:10 AM (10 minutes)

Presenter: SORRENTINO, Nunziato (Istituto Nazionale di Fisica Nucleare)

Session Classification: Hackathon introduction

Contribution ID: 14

Type: **not specified**

Classification of lesions in medical physics

Wednesday, June 9, 2021 9:20 AM (10 minutes)

Presenter: RETICO, Alessandra (PI)

Session Classification: Hackathon introduction

Contribution ID: 15

Type: **not specified**

Introduction and logistics

Monday, June 7, 2021 9:00 AM (20 minutes)

Presenter: BOCCALI, Tommaso (PI)

Contribution ID: **16**

Type: **not specified**

How to access INFNCloud

Wednesday, June 9, 2021 4:30 PM (20 minutes)

Presenters: SPIGA, Daniele (PG); DUMA, Doina Cristina (CNAF)