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PROGRAM OF CONDUCT
ML WEEK
JANUARY 26 – FEBRUARY 1, 2025

VENUE

Educational and health camp "Polytechnic-2"
(Lviv region, Slavske town, I. Franka St., building 49)
https://karpaty-slav.com/politeh.html

VISION

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ML Week is an intensive educational and practical platform that brings together the best young talents from leading universities in Ukraine (NULP, KhPI, KPI, OP) to solve real-world problems using machine learning.
The event aims to create a community of future leaders in the field of artificial intelligence who, collaborating with each other, develop innovative solutions for business, science, and society.

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MISSION

To inspire, unite, and create conditions for the development of future leaders in the field of machine learning, promoting innovation and progress in Ukraine.

GOAL

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Deepening knowledge in the field of machine learning (ML):

Introducing participants to modern methods, algorithms and approaches in Computer Vision and Data Science .
Practical application of ML to solve real-world problems.

Development of practical skills:

Using current ML tools and libraries (Python , TensorFlow , OpenCV , Scikit-learn).
Building a full cycle of an ML project: from data preparation to model deployment.

Formation of interuniversity teams:

creating conditions for working in mixed teams, which promotes the exchange of knowledge and experience.

Software development skills : improving teamwork, leadership, time management, and
communication skills within projects .

Developing solutions for real problems:

The tasks are aimed at creating ML solutions that can be integrated into production, business, or social processes.

Familiarity and use of current trends in ML :

deep learning,
data analysis,
detection , etc.

Talent support:

identifying promising participants for further involvement in research projects or cooperation with partner companies.
recognition of achievements through awards for the best projects and teamwork .

Strengthening ties between universities:

Building partnerships between NULP, KhPI, KPI and OP.

Partnership expansion:

Communication with experts, teachers, and industry representatives who may become mentors or partners in the future.

RESULTS

⇒ Participants will master the theoretical and practical aspects of ML.

⇒ Participants acquire practical skills necessary for work in the IT industry or research centers.

⇒ The developed projects can be presented as examples in a CV or portfolio and can be integrated into production or research initiatives.

⇒ Participating universities establish contacts for future projects .

FEATURES

1. Participants:
   ⇒ 80 students with
     o National University of Lviv Polytechnic (NULP),
     o National Technical University "Kharkiv Polytechnic Institute " (KhPI),
     o National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute" (KPI),
     o Odessa Polytechnic National University (OP)
   ⇒ 20 teams

*each team has participants from 4 universities, which promotes collaboration and knowledge exchange.

2. Two areas of teamwork :
   ⇒ Computer Vision
   ⇒ Data Science

*participants work on parallel tasks, but with the same challenges.

3. Presentation of teamwork projects
   *participants demonstrate the acquired knowledge and skills.

4. Awards
   *results for all days are taken into account, which motivates teams to work effectively.

ACTION PLAN

Day	Time	Activity
Race 01/26/2025	from 2:00 PM	Participants' settlement
Day 1 01/27/2025	09:00 – 10:00	Registration, welcome coffee, breakfast
	10:00 – 10:30	Opening of ML Week : opening speech, presentation of universities and partners
	10:30 – 11:30	Project presentation
	11:30 – 1 3 : 0 0	Time for communication
	1:00 – 2:00 PM	Team formation and project allocation
	14:00 – 15:00	Dinner
	15:00 – 16:30	Workshops: - Approaches to solving problems Computer Vision - Approaches to solving Data problems Science
	16:30 – 18:30	Practical work in teams (project consulting) : - CV: Image Processing - D S : Dataset preparation
	17:30 – 18:30	Round table: Discussion of real-life ML cases (invited experts and university representatives)
	18:30 – 19:30	Dinner
Day 2 01/28/2025	09:00 – 10:00	Morning coffee, breakfast
	10:00 – 11:30	Workshops: Popular ML algorithms Model quality assessment and metric selection
	11:30 – 13:00	Practical work in teams (project consulting): - CV: Image Classification - DS: Data Clustering and Prediction
	1 3 : 0 0 – 1 4 :00	Time for communication
	14:00 – 15:00	Dinner
	15:00 – 17:00	Practical work in teams (project consulting) : - CV: improved image classification - D S : search for the best learning model
	1 7 : 0 0 – 18: 0 0	Q&A: answers to questions from teams
	18:30 – 19:30	Dinner

Day 3 01/29/2025	09:00 – 10:00	Morning coffee, breakfast
	10:00 – 14:00	Chairlift to Mount Zakhar Berkut Skiing/sledding
	14:00 – 15:00	Dinner
	15:00 – 16:30	Skiing/sledding
	16:30 – 18:30	Practical work in teams (project consulting): - CV: improved image classification - DS: finding the best learning model
	18:30 – 19:30	Dinner
Day 4 01/30/2025	09:00 – 10:00	Morning coffee, breakfast
	10:00 – 1:00 PM	Intensive work on projects (project consulting): - CV: Object detection tasks in images - D S : Big Data Analysis (Big Data) and creating a recommender system
	1:00 PM – 2:00 PM	Time for communication
	14:00 – 15:00	Dinner
	15:00 – 16:30	Continuing work on projects , final optimization of models , preparation of project presentations
	16:30 – 17:30	Mentoring sessions: tips from experts
	17:30 – 18: 3 0	Rehearsing presentations in teams
	18:30 – 19:30	Dinner
Day 5 01/31/2025	09:00 –10:00	Morning coffee, breakfast
	10:00 – 14:00	Presentation of projects before the jury (experts, teachers, partners)
	14:00 – 15:00	Dinner
	1 5:00 – 17:00	Presentation of projects before the jury (experts , teachers, partners)
	17:00 – 17:15	project presentations
	17:15 – 17:30	Announcement of winners and presentation of prizes
	17:30 – 18: 3 0	Closing of ML Week : thanks to participants, organizers and partners, networking
	18:30 – 19:30	Dinner
Departure 01.02.2025	until 12:00	Departure of participants