



Contribution ID: 61

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## Application of machine learning (ML) in radioisotope identification in the environment

Wednesday 7 September 2022 17:00 (15 minutes)

Danang Unit, Research and Development Center for Radiation Technology, Vietnam Atomic Energy Institute. The content of the internship is as follows:

1. Internship topic: Research on application of machine learning (ML) in radioisotope identification in the environment based on gamma spectrum measured by NaI scintillation detector

2. Job Description:

- Developing and testing algorithms, image recognition models and other problems in the field of physics, nuclear engineering
- Deploy and improve algorithms and models according to actual application requirements
- Writing algorithm documents, reports and seminars

As a pedagogical student, I have never been exposed to programming, so I am spending 2 months learning this language. Besides, I find this topic extremely interesting because the application of information technology in the nuclear field is really attractive in the 4.0 era.

To complete the project I need to equip:

- Have a mathematical background in linear algebra, statistical probability, and good optimization
- Ability to work independently, actively, proactively at work, always eager to explore and learn new knowledge
- Ability to search documents, read English documents

So I'm doing my best in the hope that artificial intelligence will develop more and more widely.

**Presenter:** .. Phùng Thị Xuân

**Session Classification:** Student presentations - Session 3