

## 2024 – AI Research Intern – MAS

### Description

#### About the job:

We are looking for an AI Research Intern to work with our AI research team, conducting world-class research in the area of Intelligent Operations and Management of future Autonomous Telecommunication Networks, influencing market and product development in order to deliver significant business value. The AI research team are working on production Datasets in close collaboration with a team of Domain Experts and Software Engineers.

Multi-Agent System (MAS) technology is a core area in both Artificial Intelligence (AI) and Computer Science. It involves multiple heterogenous decision-making agents that exist in an environment to achieve common or conflicting goals. These agents interact with each other to solve complex problems that exceed the abilities of individual problem solvers

As an AI Research Intern, your knowledge and experience in insights from multi-agent technologies will be applied to the areas of network self-optimization and self-healing, including, but not limited to fault localization and troubleshooting, root cause analysis, fault remediation planning, action planning tasks in distributed telecom environment. The cornerstone is a Telecom Foundation Model, being fine-tuned on these agent's tasks.

#### Responsibilities:

- Identify the state-of-art of AI technologies (both in industry and in academic literature) for solving healing and optimization problems in the domain of Autonomous Telecommunication Networks.
- Focus on technologies of Multi-agent system for task decomposing, joined learning and planning and efficient communication between agents, for use cases of network self-healing and decision-making for network self-optimization.
- Develop technology insights into the latest technologies and propose research topics.
- Development of software prototypes based on AI technologies, and benchmark alternative solutions.
- Contribute to papers planned for external conferences.
- Work closely with Domain Experts, Data Engineers, and AI researchers.

#### Requirements

- PhD in Artificial Intelligence, Machine Learning and/or Computer Science.
- Knowledge of computer architecture and complex system architectures (e.g., highly concurrent and/or distributed systems)

#### Hiring organization

Candidate-1st

#### Employment Type

Full-time

#### Beginning of employment

asap

#### Job Location

Dublin, County Dublin, Ireland

#### Working Hours

40

#### Base Salary

euro EUR 28K - 53K \*

#### Date posted

May 22, 2024

- Hands-on experience with Artificial Intelligence, with preferred experience in Multi-Agent Systems.
- Good mathematics and statistics background.
- Strong programming skills in Python.
- Practical skills in the use of machine learning frameworks, i.e., Scikit-Learn, Pytorch.
- Problem solving ability, and demonstrated ability to develop new algorithms and methodologies from leading open source initiatives and research papers.
- Domain knowledge of telco networks is a great plus.
- Publication track records in machine learning and computer science conferences and journals, including, but not limited to, ICML, ECML, NIPS, AAAI, IJCAI, IJCNN is a great plus.

## **Benefits**

**Location: Dublin, Ireland**

## **Job Benefits**

EUR 28K – 53K \*