INESC TEC | Research Grant (AE2024-0469)
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Job Title	INESC TEC | Research Grant (AE2024-0469)
Department	CESE
Institution	INESC TEC
	PORTO, , Portugal
Date Posted	Nov. 14, 2024
Application Deadline	Nov. 27, 2024
Position Start Date	Nov. 14, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Apply By Email	
Job Description	

Research Opportunities

Computer Engineering

Work description

- Implementation and testing of systems for data ingestion and processing.
- Preparation of data and ML models using Deep Learning (DL) techniques.
- Study of the application domain of ML models.
- Training, evaluation and debugging of ML models (general and domain studied).
- Research and investigation into ML model training and evaluation techniques.

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- Dissemination of results (development and presentation of demonstrators, writing and presentation of articles).

Academic Qualifications

- Master's degree in computer engineering or related field.

Minimum profile required

- Experience in software development using Python.
- Experience in developing machine learning systems in Python (Sickit learn, PyTorch).
- Experience in training and evaluating DL models for object identification (YOLO v7).
- Experience in writing and presenting scientific articles.

Preference factors

- Experience using PySimpleGUI to develop interactive applications.
- Experience using Tensorboard to monitor and evaluate ML models.
- Knowledge of the field of fabric production on Jaquard looms (quality control).

Maintenance stipend: € 1259,64, according to the table of monthly maintenance stipend for FCT grants , paid via bank transfer. Grant holders may be awarded potential supplements, according to a quarterly evaluation process (Articles 19, 21 and 22 of the Regulations for Grants of INESC TEC and Annex II), up to a maximum limit of 50% of the monthly maintenance stipend.

INESC TEC supports costs with registration, enrolment or tuition fees, during the grant duration, under the terms established in the internal document: "Payment of Tuition fees to grant holders".

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The grant holder will benefit from health insurance, supported by INESC TEC.

Application Period

Since 14 Nov 2024 to 27 Nov 2024

Centre

Enterprise Systems Engineering

Scientific Advisor

Davide Rua Carneiro

What we offer

- **Multicultural and collaborative environment**
- A multicultural, international and collaborative environment that makes it easier to exchange ideas, work in networks and create synergies.
- **International projects**
- The possibility of working in international projects with some of the most important companies in the field.
- **Mentoring**
- Mentoring with the best researchers in the fields of electrical and industrial engineering, bioengineering, information technology and physics.
- **Self Improvement**
- The possibility of participating in international conferences, workshops, seminars and vocational training.
- **Other Benefits and Perks**
- Flexible working time, health insurance, discounts in hotels, transportation, etc.
- **Informal Events**

- Annual informal events, such as the multicultural party.

For more information: Click Here

Contact Information

Contact

Portugal

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