ESPA

Data Science Internship (AILDS2202)

Start date
Jun 2022

Duration
6 months

Languages
Good spoken and written English levels are required
(B2 onwards)

Location
Bristol, England
Bristol is the largest city in the South West of England. It has a strong reputation for creativity, digital innovation and social enterprise, and is the home of Oscar-winning Wallace and Gromit and urban artist Banksy. Offering a lively nightlife, bars and restaurants aplenty, musical diversity and many historical sites. Now you can even surf here!
In 2017, The Times newspaper voted it 'Best Place to Live in the UK'.

Are you eligible?
Are you a registered student?
                    Or
Are you eligible to participate in the Erasmus+ programme?

Benefits
See website for details of all ESPA benefits. For all internships over 6 months, additional benefits will be paid. Details available at interview.

Role

This is an exciting opportunity for a data scientist, interested in solving business challenges through innovative AI technology. The host company is an AI scale-up already working with the world's leading aerospace and defence companies. They hire the best minds in technology to innovate and build solutions for customers who desperately want to successfully adopt AI within their businesses. They are currently building an Enterprise AI platform to give everyone the power of AI, irrespective of their skill background and thereby create 'citizen data scientist'. Mentored throughout, you will have the opportunity to impact the evolution of products as well as lead mission critical projects early in your career. If you enjoy working on cutting-edge, scalable technology in a team environment and want to write real software with established data scientists and experienced software engineers, this is the internship for you! An invaluable addition to your CV and real boost to your career prospects.

Tasks

- Develop supervised and unsupervised machine learning models, for example XGBoost, KNN etc.
- Develop deep learning models using Neural Networks e.g. Auto Encoders, Generative Adversarial Networks (GANs), Federated Learning etc.
- Develop Explainable AI modules to present machine learning results to end users
- Implement optimization algorithms, using the trained machine learning (surrogate) models
- Develop uncertainty quantification modules to highlight uncertainty in model prediction
- Implement cutting edge AI algorithms from published scientific documents
- Write technical articles/blogs on industrial use cases

Personal Skills

- Master's in data science with background in Mechanical/Industrial/Aeronautical Engineering
- Mastery in Python programming language
- Strong written and verbal communication skills
- Basic working experience/knowledge in Unix/Linux environment
- Basic knowledge of containerised applications, for example Docker
- Basic knowledge of GPU based highly parallel software development

The Host Company

The host is an AI-for-Engineering deep tech company, helping industry accelerate decarbonisation of their manufacturing operations. Their aim is to make complex AI technology simple to use and thereby accelerate AI adoption and digital transformation journeys of their customers.