

IISc Website Writeup

Title: ML Researcher for tinyML and Computer Vision Applications at DESE

We invite applications for Machine Learning Researcher position to build the next generation low power tinyML algorithms and models at the [NeuRonICS](#) Lab in DESE. The researcher will closely work with the team to understand, design, and develop hardware-optimized algorithms that can run real-time edge applications.

For further details and to apply, please visit <https://forms.office.com/r/Vm4rPsSnXe>

Detailed Writeup (For [LinkedIn Jobs](#) and Form Description)

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Responsibilities

1. Design and develop efficient machine learning algorithms.
2. Optimize it for Hardware deployment.
3. Collaborate with a cross-functional interdisciplinary team such as ML researchers, firmware engineers, and signal processing engineers to tackle scientific challenges.
4. End-to-end model development.

Requirements

1. BTech/MTech in machine learning, computer science, electrical engineering, biomedical engineering, neural engineering, relevant technical field, or equivalent practical experience.
2. In-depth understanding of Machine Learning and Deep Learning techniques.
3. Knowledge of model compression techniques: Pruning, Quantization, tensor decomposition, etc.
4. Familiarity with efficient neural network architectures such as MobileNets, EfficientNet, BinaryNN, etc.
5. Familiarity with tinyML concepts and experience in porting machine learning models on hardware.
6. Experience in signal processing and preferably familiarity with real-time signal processing.
7. Proficient in Python and, desirably, C.
8. Knowledge of frameworks like Pytorch, Tensorflow, OpenCV, Brevitas, etc.
9. Good to have experience with large-scale cluster computing for machine learning modeling.

Benefits

1. Work with bright research ML engineers, team members, and collaborators worldwide.
2. Working on high-end AI tech and having an impact on real-world applications.
3. New culture with a mix of rich academic and start-up values.
4. Personal growth opportunities through internal knowledge sharing and interest groups.
5. Flexible working hours.
6. A competitive salary based on qualifications, expertise, and experience.

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