IISc Website Writeup

Job Title: Senior ML Researcher for Brain-Computer Interface (BCI) at DESE

We invite applications for Machine Learning Researcher position to build the next generation BCI decoder at the NeuRonICS Lab in DESE. The overall project has a grand and novel vision to develop invasive or non-invasive brain co-processors that can enhance or restore essential brain functions such as memory, attention, vision, and motor skills. The researcher will work with neuroscientists to understand the neural data and develop hardware-optimized algorithms that can run in real-time to develop the closed-loop BCI system.

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 machine learning-powered BCI algorithms.
2. Optimize it for Hardware deployment.
3. Collaborate with a cross-functional interdisciplinary team such as neuroscientists and signal processing engineers to tackle scientific challenges.
4. Real-world deployment on an animal model.

Requirements

1. BTech/MTech in machine learning, computer science, electrical engineering, biomedical engineering, neural engineering, relevant technical field, or equivalent practical experience.
2. A few years of industrial experience in machine learning projects.
3. Experience in signal processing and preferably familiarity with real-time signal processing.
4. Experience utilizing neural signals (e.g., EEG) in combination with Machine Learning and potentially in Real Time Analysis
5. Experience in production-ready code in Python and PyTorch Tensorflow.
6. Good to have: experience with large-scale cluster computing for machine learning modeling.

Benefits

1. Work with bright neuroscientists, ML researchers, engineering teams, and collaborators worldwide.
2. Working on high-end AI-tech and having an impact on real-word 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. A competitive salary based on qualifications, expertise, and experience.

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