

THIS SUMMER

MAKE PRODUCTS ON EMBEDDED

maker

noun [C] • UK  /'meɪ.kə/ US  /'meɪ.kə/

- ★ someone who creates or invents things, either using traditional crafts or technology:

THE PROBLEM

India needs more Makers who use technology to create solutions which fit Indian market. Most solutions are not custom Made for India.

SOLUTION

We need to create more makers out of students who are leaders and inspire others to become makers and start a maker revolution.

WHAT WILL WE BE MAKING ?

End-to-End Embedded solutions such as

- Network Attached Storage (NAS)
- AI based Adverts
- ARM based Thin-clients
- And More...

MARKET POTENTIAL

Approximate Global Market potential



BILLION USD

WHAT ARE WE LOOKING FOR ?

Interns who have these qualities



SINCERE



COMMITTED



**SELF
MOTIVATED**

TRAINING

Selected interns will be trained in

Stage 1

- Introduction to Maker culture
- MIT Innovation & Design thinking
- Essentials of being an Entrepreneur

Stage 2

- Microprocessor peripherals
- Microprocessor booting
- Embedded Linux
- Introduction to different Embedded hardware

WHY INTERN WITH US ?

- Get to work in niche area skill : Combo of System engineering and Entrepreneurship
- Get to work on Latest Embedded Hardware
- Access to IoTIoT.in community & its benefits

**COME BECOME A MAKER
WITH US**



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**INTERNS WE
CAN SUPPORT**

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DURATION

2 MONTHS

OUR MISSION : To Create Globally leading startups in IoT & AI



SUMMER INTERNSHIP

in

MODEL OPTIMIZATION FOR EMBEDDED SYSTEMS

THE CHALLENGE

Typically Deep Learning models are made for Cloud environments making them heavier. In case of an Embedded System heavier model decreases the performance during Inference of the program. Hence the need for Optimizing models is becoming a necessity for Embedded Systems.

SOLUTION

We need a system layer which implements Model Optimization techniques for Embedded Systems.

COMPANIES ALREADY WORKING ON THIS PROBLEM



NVIDIA

HUAWEI

Logos belong to the respective owners

WHY NOT USE EXISTING SOLUTIONS ?

Existing solutions are either Closed Source or are very limited to specific hardware or are not meant for Embedded Systems.

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TRAINING

Selected interns will be trained in

Stage 1

- Neural Networks Basics
- Training Neural Networks
- Model Training Pipeline
- Introduction to CNN

Stage 2

- Introduction to Model Optimization techniques
- Model Pruning
- Model Quantization
- Model Compression

LIVE PROJECT GOAL

Implement Model Optimization layer for Embedded Systems

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