

Orientation programme of Project Based Industrial Training on Blockchain, IoT and Machine Learning using Python



Jointly offered by
NIELIT Guwahati & CIT Kokrajhar

Why this internship?

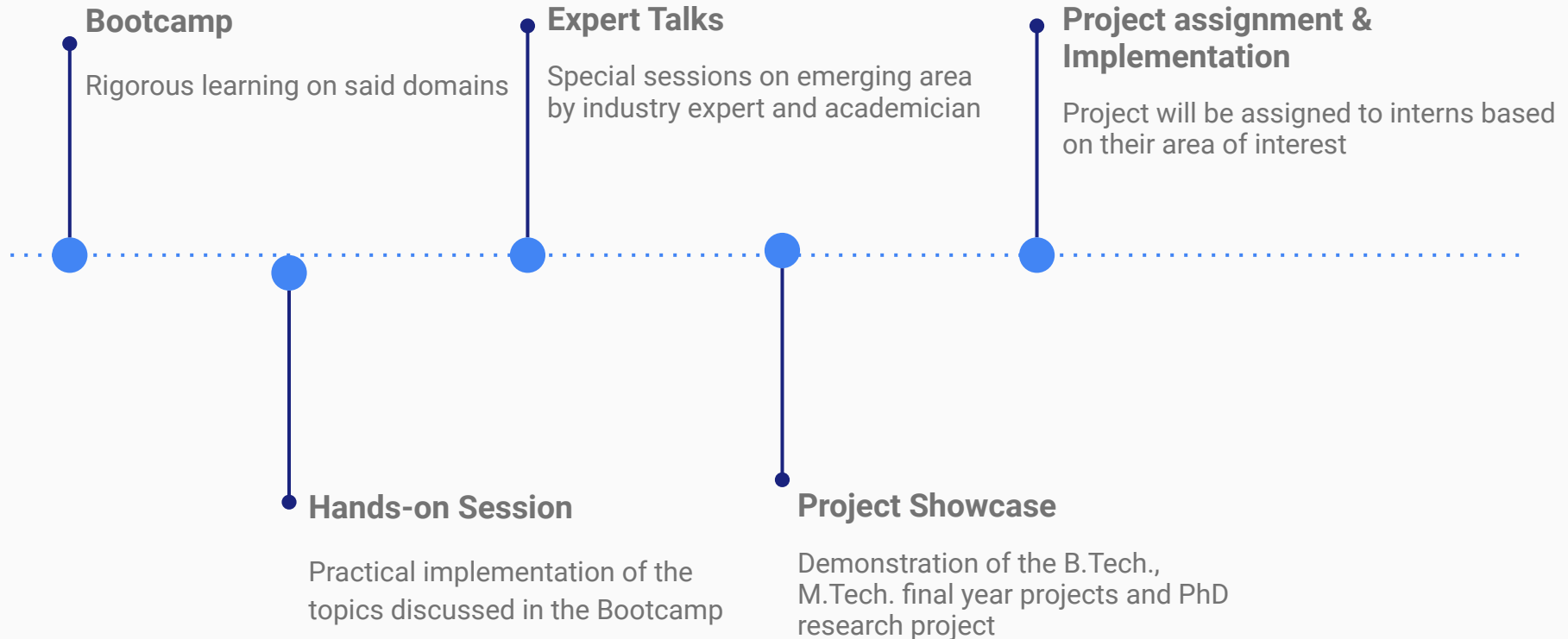
- Hands-on practical learning
- Structured learning for implementation of project ideas.
- Work on emerging technologies.
- Get industrial exposure.
- Get familiar with academic research domains



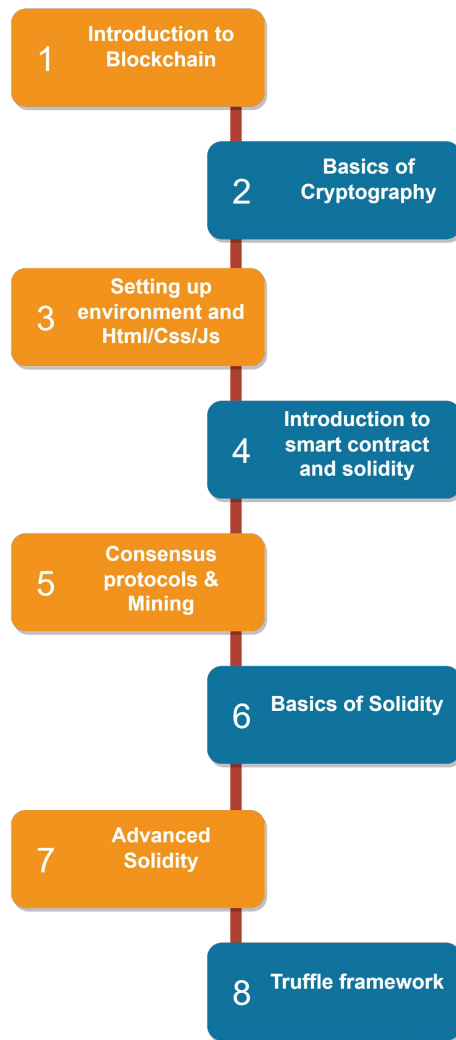
Focused area

- **Blockchain Technology**
 - Education and IT industry
- **IoT**
 - Agriculture
 - Wildlife
 - Smart cities
 - Green energy
- **Machine Learning**
 - Medical & Health care

Internship timeline



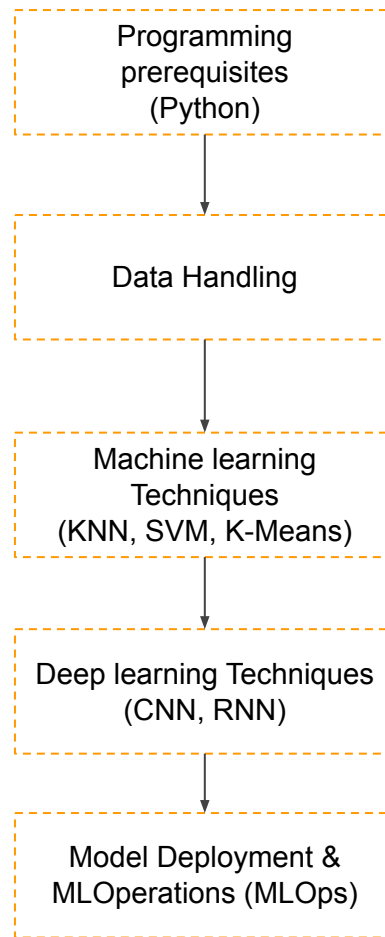
Blockchain Learning Path



Future Scope of Blockchain

- Sectors
 - Cyber Security
 - HealthCare
 - Education
 - Agriculture
- National / International
- Startups
- Research and Development (R&D)

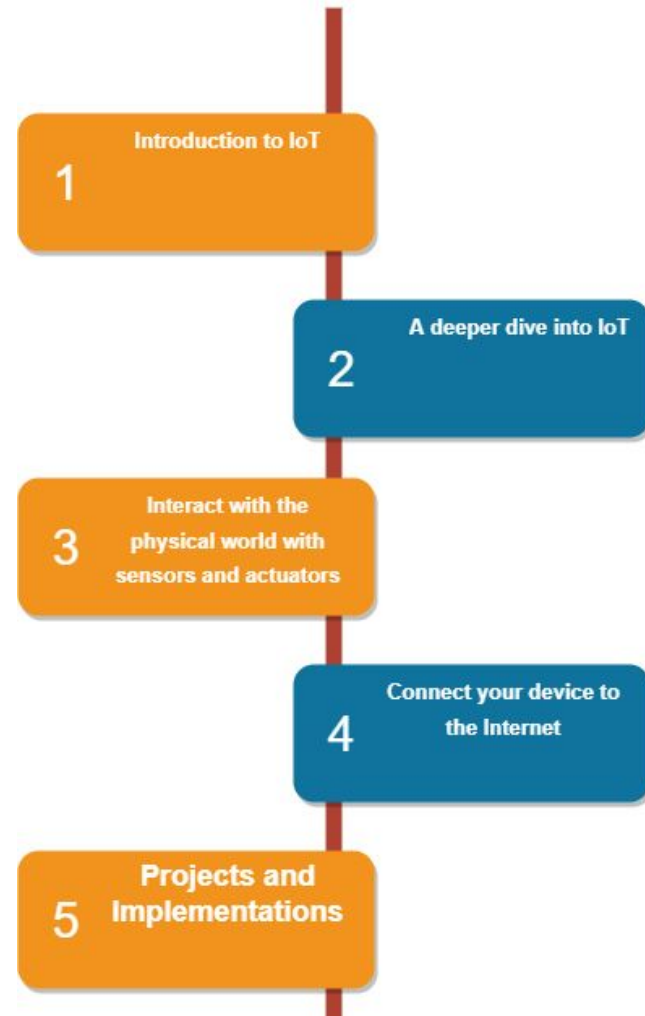
Machine Learning Path



Future Scope of Machine Learning

- ❑ Industry (All sectors)
- ❑ Academic Research
- ❑ R&D in Industry
- ❑ Majority of companies have R&D lab in India
- ❑ Emergence of TinyML

IoT Learning Path



Learning Resources

- NPTEL

- *"Blockchain and its application"* by Prof Sandip Chakraborty and Prof. Shmik Sural, IIT KGP.
- *"Introduction to Blockchain Technology and Applications"* by Prof. Sandeep Shukla, IIT Kanpur.
- Introduction to Machine Learning by Dr. Balaraman Ravindran, IIT Madras.
- Introduction To Internet Of Things By Prof. Sudip Misra IIT Kharagpur.
- Design for internet of things By Prof. Prabhakar T V IISc Bangalore.

- Coursera

- *"Blockchain Specialization by University"* at Buffalo and The state university of, New York
- *"An introduction to programming the internet of things(IoT)"* by University of California, Irvine
- Deep Learning Specialization by Andrew Ng , Kian Katanforoosh and Younes Bensouda Mourri at Stanford University, DeepLearning.AI
- Machine Learning Crash Course with TensorFlow APIs
<https://developers.google.com/machine-learning/crash-course>
- *"Introduction to the Internet of Things and Embedded Systems"* by University of California, Irvine