Blockchain for Enterprise Applications

Goal

The goal of this workshop is to give participants a comprehensive overview of the Blockchain technology and its potential applications in the business / enterprise context.

Why attend?

The Internet of Value. The Future of Money. The Trust Machine. A Universal Computer. Blockchain has been called many things by many people. It is a little like the fable of five blind men and the elephant. Perhaps no one really understands what all blockchain can be and yet there is an excitement about the possibilities that it opens up. To some, it is reminiscent of the early days of the world wide web with grand visions of how it can change the world.

The first application of blockchains was the bitcoin cryptocurrency. Even though bitcoin is remarkable in what it has achieved, it is the underlying blockchain technology that has potential applications beyond currency. The most ambitious applications are about re-imagining today's economic & social institutions.

At its heart, what blockchain achieves is decentralized trust. Using some very innovative application of cryptography and distributed computing, it allows nodes in a peer to peer network to achieve a consensus. In monetary applications, this consensus is about the transactions that have taken place and are recorded in a distributed ledger. Placed in the enterprise context however, what blockchain enables is the opportunity to engineer truly digital enterprises when combined with other technologies like AI & IoT.

We are however, only at the beginning of this journey. Blockchain, as a technology presents both opportunity and challenges. For example, one of the key challenges is of being able to scale blockchain technology; another one is to prevent misuse by antisocial elements. But the opportunities far outweigh the challenges and the applications are limited only by one's imagination.

Who should attend?

Open to All Global Tech associates

This course will provide the fundamentals and high-level understanding of Blockchain & DLT. The tools and the process involved in each of them and also business level understanding with use cases of how these technologies are being used and implemented in real life scenarios. To understand the technology and its implications to make intelligent technical and business decisions of deploying or using these methodologies in their areas to enhance existing process or capturing new business avenues.

Benefits

This program will help participants answer the following questions:

1. How to evaluate whether your company needs a Blockchain strategy? If yes, how to get started.
2. Which aspect of Blockchains are really useful in your enterprise? Smart Contracts? Token Economics? Cryptocurrencies?
3. What can you do today? In the future? – The expected roadmap of Blockchain evolution
4. What are the challenges that exist today to implement a successful Blockchain project?
5. What are the parameters you need to consider like resources, who should lead the Blockchain projects?
6. What is the difference between Blockchains and Distributed Ledger Technology? Which one should you be focussing on?
7. Should you use a Public Blockchain or a Permissioned Blockchain?
8. What are the key considerations in choosing a blockchain technology: Privacy, Throughput, Maturity etc.
9. How does Blockchain intersect with other evolving technologies e.g. IoT, an ML/AI?
10. Insource vs Outsource strategies? What should you Build vs. Buy?

BLOCKCHAIN In BUSINESS

In this workshop, participants will learn how Blockchain, as a piece, can fit into other existing and evolving technologies and applications. Participants will engage in an interactive brainstorming session to discuss applications where they see a potential to apply this technology. They will get an opportunity to identify challenges and design strategies that will support their efforts towards successful project implementation.

Course Content & Schedule: Day-1

Session 1: Convergence of Blockchain with AI & IoT

We will start the day by covering how blockchain technology will converge with other technologies like AI & IoT. With real world examples, this session will show how these three technologies can be leveraged to create a truly digital enterprise. We will finish by talking about the challenges involved in bringing these technologies together.

Session 2: Case Studies & Ideation

This session will be an open forum where the agenda will be driven by the audience. The objective is to explore questions & potential applications of Blockchain based solutions which may be of interest to participants. It will be structured as a discussion with the mentor primarily playing the role of a moderator. It is intended as a knowledge & informed-opinion sharing session.

Course Content & Schedule: Day-2

Session 3: Planning Adoption & Deployment in your Organisation

Given the interdisciplinary nature of the challenges that this technology seeks to address, we will discuss who in the enterprise should get involved in a Blockchain project. What skill sets are needed and how to make the right decisions in terms of team size and how to manage such inter-disciplinary teams? This session will be more discussion based to explore questions & potential applications of Blockchain based solutions which may be of interest to participants.

Session 4: Open Discussion and Q&A

This session is flexible and the choice of the topics to be covered in this session will be determined by the attendees. It may cover deeper dive into real world case studies, discussion on regulatory aspects of this technology or any other topic that attendees want to cover.

Mentor/ professor

Dr. Praphul Chandra is the Founder of KoineArth which works at the intersection of Mechanism Design, Blockchains and Machine Learning. He is also a professor of data science and machine learning at the International School of Engineering (Insofe). Prior to this, he was Principal Data Scientist at Hewlett Packard Enterprise where his focus was on the application of machine learning techniques to solve real world problems across multiple domains like the Internet of Things, Taxation Fraud, Telecom and Social Network Analytics. His other industry experience includes positions at HP Labs and Texas Instruments. He has an undergraduate degree in Electronics engineering from IIT BHU, a post graduate degree in Electrical

Engineering from Columbia University, NY, a post graduate diploma in public policy from University of London and a PhD in Game Theory & Mechanism Design from the Indian Institute of Science