

## Workshop Agenda

15<sup>th</sup> September 2018

In the first half, we will provide students session on industry wide standards of programming and basics of enterprise level software development. This will be the base for all the other sessions. In the later half, we will provide an informative session on mobile technology, covering ios and android development. This will also include a practical use case for android/ios using micro services architecture.

### 1) **Building Enterprise Application with micro services architecture**

- a) Introducing architecture based programming and explaining architectures
- b) Explain enterprise level coding standards and methodologies
- c) Developing an application using micro services architecture

### 2) **Mobile Technology**

- a) Introducing to IOS and android development.
- b) Supplying a business use-case for the mobile technology.

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The second day will encompass Process automation and Deep Learning modules. We will cover basics of Machine Learning along with explanation of deep learning and use cases demonstrations on the same.

**3) Process Automation and Machine Learning**

- a) Introduction to robotic process automation
- b) Workflow automation
- c) Introduction to Machine Learning
- d) Use Case on automation and Machine Learning

**4) Deep Learning**

- a) Basics of deep learning
- b) CNNs and their use in image recognition and OCR
- c) Hands-on session on Image recognition and practical use cases

The workshop will make students understand the enterprise level architecture and will gain knowledge on trending tools like mobile technology, process automation and Machine learning. The session will exhibit how Barclays is tackling real life scenarios with different solutions and keeping up-to date with new technologies.