

# Progress report

## Center of Excellence in Big Data Engineering

### December 2017

#### Abstract

The idea of Co-creation of Center of Excellence in Big Data Engineering was initiated between IIIT Bangalore and City University, United Kingdom. The set of activities as a part of the initiative are co-creation of academic curricula in Big Data Engineering, conduct a workshop for tier 2, tier 3 institutions in India and involve representatives from City College in the workshop, create a course curriculum and teach in respective institutions and support specific research projects in Big Data. The progress is presented in this report. The set of tasks to be performed is also listed below.

## 1 Progress

1. A platform for Center for Data Science can be accessed at [http://wsl.iiitb.ac.in/cds/index.php/Center\\_for\\_Data\\_Sciences](http://wsl.iiitb.ac.in/cds/index.php/Center_for_Data_Sciences)
2. Zenser labs and egovernment.org are potential industry partners for this project.
3. Janakiram D, Professor, IIT Madras will be the potential academic partner.

### 1.1 Progress of Open city project

- (a) Deepti Chamoli, Shivangi Awasthi, Devyani Bajaj, Akhila Veerapuraju, Mtech students have joined the open city project.
- (b) The design phase has been completed and they are building the application using Ruby on rails.
- (c) They are using blockchains to address the problem of uncontrolled dissemination of private data.
- (d) They have created database migrations and authentication of the users using the devise.

### 1.2 Progress of Web Observatory Project

- (a) Rachana Mamillapalli and Meghana Kotagiri, Imtech students are working on this project.
- (b) Raksha P S will be presenting a demo paper titled "Mithya: A Framework For Identifying Opinion Drivers On Social Media" in the ACM IKDD Conference on Data Science and International Conference on Management of Data, Goa, India, from 11-13 Jan 2018 (CODS-COMAD 2018)

## 2 Tasks to be performed

1. To finalize on the potential partners and make progress in the collaboration.
2. Creation of the ledgers for the blockchain and developing the application for the open city project.

### 2.1 Next steps for web observatory project

- (a) Build a framework for modelling online social cognition by understanding how various cognitive models operate on social media.

- (b) Build a model to identify various narratives for a topic on social media, based on word embedding and neural network approach.
- (c) Integrating the narrative identification and opinion driver identification models to identify signature of a trending topic on social media.