CS4400 assignment 3

Submitted by-Yash Pandey

17317629

D-stream

Paper 1: Securing Fog Computing for Internet of Things Applications: Challenges and Solutions

- **Four key conclusions**
  1) Fog computing is a step further from cloud computing as it extends storage, computing and networking resources to support massive internet of things applications.
  2) It also raises various privacy and security issues for users.
  3) Fog computing is more secure than cloud computing.
  4) Fog computing is decentralised.
- **Four key technology insights**
  1) Smart traffic lights
  2) Decentralised vehicular navigation
  3) Healthcare and activity tracking
  4) Edge content caching
- **Four key insights of relevance to fog computing**
  1) Big data analysis can be done more efficiently using fog computing.
  2) Fog computing reduces the time for complex computational operations such as cryptographic operation, image processing, etc.
  3) Fog computing offloads computational tasks thus reducing the response delay of the system and at the same time making it more energy efficient.
  4) Using fog computing we can easily manage billions of internet of things devices used in large scale internet of things application.

Paper 2: Mobile Edge Computing: A Survey

- **Four key conclusions**
  1) Mobile edge computing provides storage, bandwidth and battery life to the resource constraint mobile devices.
  2) Mobile edge computing can provide flexible resources to the applications involving intensive computational tasks.
  3) There are some security issues which still needs to be addressed before mobile edge computing is deployed commercially.
  4) Mobile edge computing offers cloud computing by pushing cloud resources to the edge of the mobile network to fulfil application requirements.
- **Four key technology insights**
  1) Connected vehicles
  2) Smart grid
  3) Wireless sensor and actuator networks
  4) Video analytics
- **Four key insights of relevance to edge computing**
  1) It is more energy efficient.
  2) It can be used for mobile big data analytics.
  3) It removes the storage limitation on mobile devices.
  4) It reduces the latency and provides high bandwidth.