

# Dilpreet Kaur

## PERSONAL DETAILS

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*Birth* September 12, 1990  
*Address* I-304, Govindpuram, Ghaziabad, India  
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## EDUCATION

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**PhD. Computer Science and Engineering** 2015 - present  
*Indian Institute of Technology, Delhi*  
Area: Machine Learning for Smart Devices  
Advisors: Prof. Manik Varma and Prof. M. Balakrishnan

**M.Tech. Computer Science and Automation** 2011-2013  
*Indian Institute of Science, Bangalore*  
Advisor: Prof. Y. Narahari  
CGPA: 6.6/8.0 with A grade in project

**B.Tech. Computer Science and Engineering** 2007-2011  
*JSS Academy of Technical Education, Noida*  
Percentage: 80.15%

## WORK EXPERIENCE

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**Research Engineer** 2013-2015  
*Center for Development of Telematics, New Delhi, Full-time*  
Deployed OpenStack for private cloud services. Developed soft phone using SIP protocol.

## PUBLICATIONS

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**Incentive Compatible Mechanisms for Power Cut Allocation in Smart Grids**  
*9th IEEE International Conference on Automation Science and Engineering*

In this paper, we propose (i) a reverse auction mechanism and (ii) a forward auction mechanism that both are designed to allocate the power cuts. These auctions are based on redistribution mechanisms and satisfy dominant strategy incentive compatibility and allocation efficiency. The mechanisms are weakly budget balanced and since they are based on redistribution mechanisms, they lead to reduced budget imbalance.

## REFERENCES

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Available on request.