

# Dr. Anusuya Ghosh

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## WORK EXPERIENCE

### THOUCENTRIC | OPERATIONS RESEARCH SPECIALIST

Aug 2019 – Present

- Formulation and implementation of Trade Promotion Optimization for a chocolate industry| Python, Linear Programming
- Modeling and solutioning of Fleet Management System for a van industry| Python, Linear Programming
- Lead developer of Shipment Routing Optimization for a CG industry|Python, Linear Programming

### GROFERS | DATA SCIENCE - OPERATIONS RESEARCH

Dec 2018 - Aug 2019

- Development of Warehouse Optimization| Python, Non-linear Programming
- Formulation and implementation of Replenishment Optimization| Python, Linear Programming
- Advancement of CPD forecasting model|Python, Regression Analysis

### EY | SENIOR CONSULTANT

Aug 2017 - Dec 2018

- Modeling and formulation of Inventory Optimization for a fertilizer industry|IBM ILOG CPLEX, Linear Programming
- Dispatch planning for CPG industry| IBM ILOG CPLEX, Network Flow Model

### IIMBANGALORE | POST DOCTORATE

Dec 2016 - Aug 2017

- Research on Inventory Optimization of perishable products| Matlab, Dynamic Programming

### TCG | SOFTWARE DEVELOPER

Nov 2015 - Nov 2016

- Formulation and implementation of MoU Optimization|IBM ILOG CPLEX, Linear Programming
- Grade Sequence Optimization| IBM ILOG CPLEX, Linear Programming

## EDUCATION

### INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

PHD INDUSTRIAL ENGINEERING & OPERATIONS RESEARCH

## ACADEMIC PROJECT

### INTERNSHIP | ANSI C, LATEX

- Research on boolean function in Cryptography, ISI Kolkata, Guide : Prof. Bimal Roy

### COURSE PROJECT | ARENA, LATEX

- Research on Visual Cryptography, IIT Kharagpur
- On Semi-infinite Linear Programming, IIT Bombay
- Simulation model on OPD problem and implemented in Arena, IIT Bombay
- Optimality of an  $(s, S)$  policy with compound poisson process and diffusion demands, IIT Bombay

## PUBLISHED

### CONFERENCE

International Symposium on Mathematical Programming, 2015, USA

International Symposium on Applied Optimization and Game Theory Models, 2013, ISIDelhi

### BOOK

Decision Science in Action, Springer

## INVITED SPEAKER

2017 Department of Management Studies, IISc Bangalore

2017 Department of Mathematics, IIT Madras

2017 Department of Management Studies, IIT Madras

2017 Department of Computer Science and Automation, IISc Bangalore

2017 Chennai Mathematical Institute

## SKILLS

- Linear Programming
- Non-linear Programming
- Integer & Mixed-integer Programming
- Network Flow Model and Algorithm
- Predictive Analysis
- Forecasting

## SOFTWARE

- IBM ILOG CPLEX
- Python
- LaTeX
- Gurobi
- Excel Solver

## AWARDS

2015 MHRD Scholarship IITBombay

2009 Best Project Award IITKharagpur

2008 MCM Scholarship IITKharagpur