

# Deepali Adlakha

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## Education

May 2015 **Bachelor of Technology**, Computer Science and Engineering  
Indian Institute of Technology Bombay  
Honors in Computer Science  
Minor in Mathematics  
Advisor: Prof. Suyash P. Awate  
GPA: 8.97/10.0

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## Interests

My interests lie in the intersection of machine learning and system design. I like building systems that tackle hard data-analysis problems which involve processing data at scale.

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## Publications

- **Regularized Dictionary Learning with Robust Sparsity Fitting for Compressed Sensing Multishell HARDI**  
Kratika Gupta, Deepali Adlakha, Vishal Agarwal, Suyash P. Awate  
*Medical Image Computing and Computer Assisted Intervention (MICCAI), Athens, Greece, 2016* [paper]

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## Industry Experience

- 2016–17 **Senior Software Engineer**, Facebook, Menlo Park  
Technical Lead for embedding targeted advertisements within videos
- 2015–16 **Software Engineer**, Facebook, London  
Developed infrastructure to enable advertisers target people based on offline purchases

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## Research Experience

- Spring 2015 **IIT Bombay**, Bachelors' Thesis  
Topic: Dictionary Learning Algorithms & Applications [report], Guide: Prof. Suyash Awate
- Summer 2014 **Microsoft Research**, Research Intern  
Topic: Object Orientation Detection for Augmented Reality Applications, Guide: Eyal Ofek
- Summer 2013 **TU Braunschweig**, Research Intern  
Topic: Improving Energy Efficiency in Wireless Sensor Nodes [code], Guide: Lars Wolf

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## Talks and Seminars

- Dictionary Learning Algorithms and Applications, May 2015
- Universality, Characteristic Kernels and Embeddings, Nov 2014 [slides]
- Swarm Intelligence, May 2014 [slides]

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## Honors

- Among the Top-5 teams from IIT Bombay at ACM ICPC, 2014
- Institute Special Mention for achievements in Programming & Robotics, 2012
- IIT-JEE, 99.7th percentile, 2011
- Maths and Physics in Higher Secondary Examination, 99.9th percentile, 2011

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## Selected Course Projects

- Spring 2015 **Image De-noising**  
Removed homogeneous Gaussian additive noise from natural images through sparse and redundant representations over trained dictionaries [report]
- Fall 2014 **Texture Classification**  
Extracted spatial and orientation-based features from a set of images and learnt histograms of these key features for each of the texture classes [report]
- Fall 2014 **Improving Cost Metric in Query Optimization**  
Increased the efficiency of query plans in the PyroJ Query Optimizer by improving its cost metric using the number of index accesses and block reads/writes [report]  
Complete list with details can be found [here](#)

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## Leadership Positions

- Summer 2017 **Intern Manager, Video Monetization, Facebook**  
Managed an intern who developed infrastructure to increase advertiser participation
- 2015–17 **Boot-camp Mentor, Facebook**  
Responsible for mentoring 15 new employees to help them get on-board
- 2013–15 **Student Mentor, Institute Student Mentorship Program, IIT Bombay**  
Responsible for mentoring 8 incoming freshmen and 6 sophomore students
- 2013–14 **Internship Coordinator, Placement Cell, IIT Bombay**  
Involved in communication with various companies and universities for internship recruitment
- 2013–14 **Campus Ambassador, Hackerrank**  
Liaised with Hackerrank to promote their contests among the students of IIT Bombay

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## References

**Prof. Suyash Awate**  
IIT Bombay  
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**Zhuowei Bao**  
Facebook  
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**Eyal Ofek**  
Microsoft Research  
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**Jing Fang**  
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