

Shubham Agrawal

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EDUCATION

IIT, KANPUR

B.TECH IN COMPUTER SCIENCE

Expected Apr 2017

CPI: 8.9

PRE UNIVERSITY

St. Joseph's School, Kota, Rajasthan

GRADE 12th

Percentage: 94

GRADE 10th

CGPA: 10

LINKS

Github://submagr

LinkedIn://shubham-agrawal

COURSEWORK

Machine Learning Tools

Natural Language Processing

Recent Advances in Vision

Optimizations Techniques

Operating Systems | A*

Compiler Design

Computer Networks

Computer Security

Computer Organization

Advanced Algorithms

Data Structures and Algorithms

Theory of Computation

Linear Algebra

Discrete Mathematics

Abstract Algebra

Probability and Statistics

SKILLS

PROGRAMMING

Over 5000 lines:

Python • C • C++

Over 1000 lines:

Go • Javascript • CSS • HTML • PHP

MySQL • MongoDB

Familiar:

Matlab • Material Design

LIBRARIES

Keras, Theano, Scikit-Learn, Caffe

TOOLS

Vim, Solidworks, Linux, Windows

AWARDS

2013 All India Rank 191

2013 All India Rank 1234

2014 Academic Excellence Award

2015 BEST ROOKIE TEAM

IIT-JEE ADVANCED among 1,50,000 candidates

JEE-MAINS among 14, 00,000 candidates

DOAA, IIT Kanpur

BAJA STUDENT INDIA

EXPERIENCE AND PROJECTS

ADOBE | RESEARCH INTERN

May-July 2016 | Big Data Experience Lab, Bangalore

- Geo-fences are created by identifying areas with high values of user interest. To unsheathe interest from sparse location tagged browsing data, algorithm captures intrinsic interest of user, trends at semantically similar locations and similarity between products and users.
- Achieved precision was 5 times higher than existing geo-fence. Created user-friendly marketer's dashboard where marketer can manage geo-fence and get useful inferences about product sale. We will soon be submitting paper and filing patent

PARIKSHA.CO | RESEARCH + WEB DEVELOPEMENT INTERN

May-July 2015| Pune

- Engineered an algorithm that adaptively recommend questions depending upon student's performance and question ratings.
- Modeled and programmed scalable adaptive question recommender system using GO language and MongoDB database as a micro service.
- Implemented Pariksha Practice Section for adaptive content and a Gamification engine with impact on 20K students

MULTIPLE KERNEL LEARNING | UNDERGRADUATE PROJECT

Jan - Apr 2015 | IIT Kanpur

- Explored relative kernel hilbert space, multiple kernel learning algorithm and hierarchical kernel learning. Project was focused around multiple kernel learning to analyze effects of linear combination of different kernels over classifier.
- Extracted surf and convolutional deep-net (pre-trained BVLC GoogleNet model) features for Caltech multiclass object classification dataset containing 102 categories. Implemented Simple MKL algorithm and studied effects of linear combination of distinct kernels on svm classifier.

COURSE PROJECTS

Optimization

Vision

NLP

MLT

Compiler

OS

MISCELLANEOUS