



Kalpesh Pradeep Dusane
Computer Science & Engineering
Indian Institute of Technology Bombay

173050042
M.Tech.
Male
DOB: 08/07/1994

Examination	University	Institute	Year	CPI / %
Post Graduation	IIT Bombay	IIT Bombay	2019	0.00
Undergraduate Specialization : Computer Engineering				
Graduation	Savitribai Phule Pune University	Sinhgad Academy of Engineering	2015	72.41

ACHIEVEMENTS AND ACTIVITIES

- Scored **99.84** percentile in GATE 2017 CS/IT amongst 96,878 candidates (2017)
- Ranked **2nd** in the batch from Computer Science Department in Bachelor's final year (2015)
- Secured **2nd** prize for the bachelor's project in Project competition held by CSI student Chapter (2015)
- Among **top 1%** students in HSC(12th examination) of Maharashtra state board (2011)
- Sho Dan (**Black Belt**) in Shotokan Karate Style from Japan Karate Association(JKA) (2009)
- Participated in **5km Cycling, 5km Crossy running** at PG Sports IIT Bombay (2017-2018)
- Hobbies:** Solving 9×9 Sudoku and Rubik's Cube, Watching Football matches and Anime

POSITIONS OF RESPONSIBILITY

- Interview Coordinator, Placement Team IIT Bombay** (December 2017)
 - Assisted in the placement of **1600** students within a team of **200** students during 2017-18 placements season
 - Aided 7 companies in organizing interview process seamlessly during 2017-18 placements
 - Acted as Sole Point Of Contact(SPOC) for 3 companies and ensured smooth functioning of interviews
- Teaching Assistant for CS663: Fundamentals of Digital Image Processing** (August 2018 - November 2018)
 - Worked with a team of 7 other TAs to evaluate assignments, quizzes, and semester exams
 - Assisted students to resolve their difficulties via Moodle discussion forum
- Teaching Assistant for CS101: Computer Programming & Utilization** (August 2017 - April 2018)
 - Mentored 14 students each semester and cleared their doubts in weekly labs
 - Evaluated graded labs, examination papers and assisted in conducting examinations of **450+** students

WORK EXPERIENCE

- Cognizant Technology Solutions** | *Programmer Analyst Trainee, Chennai* (September 2015 - September 2016)
 - Full-stack design and implementation for a web application using the Agile technique in C# .NET
 - Incorporated Kendo UI framework and improved the front-end functionality of a web application
- Persistent Systems Pvt. Ltd.** | *Project Intern, Pune* (June 2014 - April 2015)
 - Developed an application using **CUDA C++** which implemented the content-aware image resizing algorithm
 - Achieved **~7.5×** acceleration in the GPU execution time compared to CPU due to a high degree of parallelism

MTECH PROJECT

- Scaled Topography from the video sequence of underwater images**
Guide: Prof. Ajit Rajwade (May 2018 - Ongoing)
 - Used feature point tracking algorithm which were implemented using Siamese Convolution Neural Network
 - Estimated depth of underwater scene in various underlying ground structures such as piecewise constant

COURSES TAKEN

Foundations of Machine Learning	Advanced Image Processing	Artificial Intelligence
Learning Analytics and Educational Data Mining	Advanced Machine Learning	Computer Vision
Fundamentals of Digital Image Processing	Algorithms and Complexity	

COURSE PROJECTS

- Multi-label Image Classification of the Amazon Rainforest** (February 2018 - April 2018)
Experimented with various combinations of CNN and RNN where CNN encoded the image while the RNN predicted labels in each time-step and used pre-trained VGG-16 as CNN which was fine-tuned while training
- Credit Card Fraud Detection System** (November 2017)
Implemented Logistic Regression, Support vector machine (SVM), Neural Network, and Random Forest classifiers

TECHNICAL SKILLS

- Languages:** C, C++, C#, Python (SKlearn, Pandas, Numpy, Matplotlib, PyTorch), MATLAB
- Web Development:** HTML, CSS, JavaScript, JQuery
- Tools:** Git, Microsoft Visual Studio, L^AT_EX