AREAS OF INTEREST

- Data Science
- Computer Vision
- Algorithms and Complexity

MTECH PROJECT AND SEMINAR

- **Scaled Topography from video sequence of underwater images**
  (M.Tech Project & Seminar, Guide: Prof. Ajit Rajwade)   *(May 2018 - Ongoing)*
  - Estimated depth of underwater scene in various underlying ground structures such as piecewise constant
  - Implemented Feature Point tracking algorithm using Siamese Convolution Neural Network
  - Surveyed various water surface shape reconstruction methods which includes optical flow based method, learning model-based method, and motion blur model-based method

WORK EXPERIENCE

- **Cognizant Technology Solutions** | *Programmer Analyst Trainee, Chennai*   *(September 2015 - September 2016)*
  - Full-stack design and implementation for a web application using Agile technique in C# .NET
  - Incorporated Kendo UI framework for 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 content-aware image resizing algorithm

COURSE PROJECTS

- **Multi-label Image Classification of the Amazon Rainforest**   *(Spring 2018)*
  Solved the Multi-label Image Classification problem using Encoder **Convolutional Neural Network(CNN)** for the feature extraction and Decoder **Recurrent Neural Network(RNN)** for predicting actual labels
- **Inferring Basis Mismatch in Image Representations**   *(Spring 2018)*
  Implemented the method of Alternating Convex Search(ACS) which uses standard l_1-minimization to find the signal model coefficients followed by a maximum likelihood estimate of the signal model
- **Credit Card Fraud Detection System**   *(Autumn 2017)*
  Solved binary classification problem by applying various machine learning models like Logistic Regression, Support vector machine (SVM), Neural Network, Random Forest classifiers with hyperparameter tuning

TECHNICAL SKILLS

- **Languages**: C, C++, C#, Python (SKlearn, Pandas, Numpy, Matplotlib, PyTorch), MATLAB
- **Tools**: Git, Microsoft Visual Studio, LaTeX

POSITIONS OF RESPONSIBILITY

- **Interview Coordinator, Placement Team IIT Bombay**   *(December 2017)*
  - Assisted 7 companies in organizing interview process seamlessly during 2017-18 placements
  - Acted as Single Point Of Contact(SPOC) for 3 companies and ensured smooth functioning of interviews

- **Teaching Assistant** for **CS663: Fundamentals of Digital Image Processing**   *(Autumn 2018)*
  Worked with a team of seven other TAs to evaluate assignments, exams, and course projects

- **Teaching Assistant** for **CS101: Computer Programming & Utilization**   *(Autumn 2017 - Spring 2018)*
  Mentored 14 students each semester and cleared their doubts in weekly labs

ACHIEVEMENTS AND ACTIVITIES

- Scored **99.84** percentile in GATE 2017 CS/IT amongst 96,878 candidates   *(2017)*
- Among **top 1%** of HSC student in maharashtra state board   *(2011)*
- Secured **2nd** prize for the B.E. project in Project competition held by CSI student Chapter   *(2015)*
- **Black Belt** in Shotokan Karate Style from Japan Karate Association(JKA)   *(2009)*
- Participated in **5km Cycling, 4.5km Crossy running** GC at PG Sports IIT Bombay   *(2017-2018)*
- **Hobbies:** Solving Sudoku and Rubik's Cube, Watching Football matches and Anime