

Ram Ramrakhya

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Portfolio: <https://ram81.github.io>

Kaggle: <https://kaggle.com/axel81>

EDUCATION

- **Pune Institute of Computer Technology, Pune** *July 2015 - June 2018*
Bachelors of Engineering, Information Technology GPA: 4.00
- **Government Polytechnic College, Jalna** *August 2012 - June 2015*
Diploma of Engineering, Computer Engineering. Aggregate: 89.05% with Hons

FELLOWSHIP AND AWARDS

- Travel scholarship for **Google Code-In Grand Prize Summit 2018**
- University **Rank 1** in 3rd Academic Year, University of Pune
- Institute **Rank 2** in 2nd & 4th Academic Year, Pune Institute of Computer Technology
- Institute **Rank 1** in all 6 semesters, Diploma Degree

WORK EXPERIENCE

- **InMobi** June 2018 - Present
Software Development Engineer 2
 - Working at the intersection of Machine Learning and Software Engineering. Working on implementing incremental caching layer to optimize latency, implemented content personalisation system using machine learning algorithms and data pipelines for processing large scale analytics data.
- **Google Summer of Code** April 2018 - August 2019
Student Developer, Organisation Mentor, Organisation Administrator
 - – **2018:** Selected as GSoC student to build Fabrik, an online collaborative platform to build, visualize and train deep learning models via a simple drag-and-drop interface.
 - – **2019:** Mentored students during GSOC - one of the most prestigious open source program sponsored by Google - for CloudCV.
- **Google Code In** October 2018 - January 2019
Organisation Mentor
 - Mentored more than 10 students during GCI - one of the most prestigious programming competition to introduce pre-university students to open source community sponsored by Google - to contribute to CloudCV.
- **InterviewBit** January 2018 - June 2018
Software Engineering Intern
 - Designed and implemented SQL programming language judge, machine learning solution evaluation platform and dashboard for interview pipeline on the InterviewBit platform.
- **NVIDIA** July 2017 - May 2018
System Software Engineering Intern
 - Worked on building a platform to design automated test suites for NVIDIA's video encoders and decoders.

PUBLICATIONS

- **Fabrik: An online collaborative neural network editor** October 2019
ACM SOSP'19, Systems for ML workshop
Utsav Garg, Viraj Prabhu, **Ram Ramrakhya**, Deshraj Yadav, Dhruv Batra, Harsh Agarwal

SELECTED PROJECTS

- **Humpback Whale Identification**
 - Built a solution for Few Shot Learning problem, a Siamese Neural Network model designed to classify whale species using whale fluke images into one of 5005 categories with imbalanced data.
- **iMet Collection FGVC6 - ICCV'19 Challenge**
 - Built a fine grained visual categorizer for multi-label classification of artworks, 1000+ categories, from metropolitan museum of art using Squeeze-and-Excitation Networks with Focal loss to handle high class imbalance.
- **EvalAI [evalai.cloudcv.org]**
 - Open source platform to create, collaborate and participate in the AI Challenges organized around the globe; **70+ open source contributors; 1700+ issues & pull requests; 450+ stars; 200+ forks**
- **Fabrik: An Online Collaborative Neural Network Editor**
 - Online collaborative platform to build, visualize and train deep learning models via a simple drag-and-drop interface; **30+ open source contributors; 850+ stars; 170+ forks**
- **Conditional Variational AutoEncoder GAN**
 - A simple extension of VAEGANs that employs label conditioning to generate high quality images. By adding an auxiliary classifier to the discriminator of a VAEGAN, it also predicts probability distribution over the class labels.
- **Glance Content Recommender**
 - A content recommendation system built using an ensemble of LightGBM and Deep + Shallow Neural Network. Built an end-to-end platform to train and deploy model in InMobi's existing infrastructure

ACHIEVEMENTS

- **Ranked 8th/914** in Kaggle's Abstraction and Reasoning Challenge
- **Ranked 10th/1571** in Kaggle's **Google** Quest QA Labelling Challenge
- **Ranked 38th/558** in Kaggle's **Lyft** 3D Object Detection for Autonomous Vehicles
- **Ranked 47th/1233** in Kaggle's **Tensorflow 2.0** Question Answering Challenge
- **Ranked 58th, 76th & 80th (Top 3%)** in Kaggle's PetFinder.my Adoption Speed Prediction, Jigsaw Unintended Bias in Toxicity Classification, APTOS 2019 Blindness Detection Challenges

PROGRAMMING SKILLS

- **Languages:** Python, C, C++, Java, Scala, Ruby, Javascript
- **Frameworks:** PyTorch, Tensorflow, Keras, Caffe, Django, Flask, PyTest, Celery
- **Distributed Systems:** Spark, Hive, Hadoop
- **DevOps:** Docker, Kubernetes, Amazon Web Services, Microsoft Azure Cloud