

Amey Porobo Dharwadker

80 Descanso Drive
Unit 1407, San Jose
CA 95134 USA

[LinkedIn Profile](#)
(650) 391 7168
ameydhar@gmail.com

EDUCATION	Columbia University , New York, United States <i>M.S., Electrical Engineering</i> (GPA: 4.0/4.0) <ul style="list-style-type: none">• Specialization: Computer Vision, Machine Learning	Sep 2013 - Dec 2014
	National Institute of Technology, Tiruchirappalli , India <i>B.Tech., Electronics and Communication Engineering</i> (GPA: 8.54/10.0) <ul style="list-style-type: none">• Degree Honors : First Class with Distinction• Thesis : Scene Text Extraction Using Color Information	Jul 2007 – May 2011
WORK EXPERIENCE	Facebook Inc. , California, United States <i>Software Engineer</i> <ul style="list-style-type: none">• I work on App Event Optimization ranking model that enables mobile app advertisers to connect to users who are most likely to take valuable actions within their apps beyond the install. I've driven this project from problem definition stage, built end-to-end machine learning pipelines, worked on data analysis, feature engineering, and training prediction models. My contributions have significantly improved ads CTR and conversions and led to increase in top-line ads revenue.• Previously, I worked on Facebook News Feed recommendations and ranking. I was responsible for user modeling and personalization in video and link feed recommender systems. I developed features and built retrieval and ranking prediction models that captured hidden relations in user and content data. These recommendations led to increased user connections and improved user engagement. Our work was featured on Slate magazine: http://slate.me/1MOCM4q• I have presented our work internally and in industry-wide Representation Learning Summit 2016 and Machine Learning Summit 2017 organized by Facebook.	Jan 2015 – Present
	Facebook Inc. , California, United States <i>Software Engineering Intern</i> <ul style="list-style-type: none">• Worked on understanding how users interact with Facebook ads and further optimizing content ads relevance and retrieval.	May 2014 – Jul 2014
	Analog Devices Inc. , Bangalore, India <i>Automotive Vision Software Engineer</i> <ul style="list-style-type: none">• Developed real-time vision based Advanced Driver Assistance System (ADAS) algorithms for proprietary ADSP-BF609 embedded processor.• Researched, designed and implemented the algorithms including input data-analysis, OpenCV and MATLAB simulations and a final implementation which featured a hardware-accelerated video analytics pipeline.	Jul 2011 – Jun 2013
PATENTS	Embeddings for Feed and Pages <i>US Patent Pending</i> <ul style="list-style-type: none">• This disclosure relates to determining feature vectors for entities in an online system using entity co-engagement and applying it to serve content recommendations to users of an online system.	
ACADEMIC PROJECTS	Large-scale Action Recognition in Videos <i>Advanced Research Project</i> <ul style="list-style-type: none">• Extracted dense trajectory features (HOG, HOF, MBH) for human action recognition in videos captured in realistic unconstrained environments.• Proposed spatio-temporal covariance descriptors on the computed dense trajectories to fuse correlated features and create a low-dimensional feature representation.	Oct 2013 – Jan 2014

Predicting Visual Aesthetics in Face Photos

Dec 2013

Biometrics Course Project

- Utilized photographic compositional features and rules to develop an algorithmic approach to quantify aesthetic quality of photos containing faces.
- Built SVM classifiers to score face photos similar to human aesthetics judgement predictions.

Text Detection in Natural Scene Images

May 2010 – Jul 2010

UGC funded Research Internship

- Developed algorithms to segment foreground text from word images in the ICDAR 2003 Robust Reading Competition Word Dataset.
- Proposed algorithms for localizing text regions in natural scene images from the ICDAR 2003 Dataset.

SKILLS

Backend: C++/C, Python

Databases: Hadoop, Hive, MySQL

Other: PHP, OpenCV, MATLAB, Mathematica

PUBLICATIONS

Abhishek Sharma, **Amey Dharwadker**, and T. Kasar. “MobLP: A CC-based approach to vehicle license plate number segmentation from images acquired with a mobile phone camera.” *Annual IEEE India Conference (INDICON), 2010*. [[pdf](#)]

T. Kasar, A.G. Ramakrishnan, **Amey Dharwadker**, Abhishek Sharma. “TexTraCC : Text extraction using color-based connected component labeling.” *The Centenary Conference, Electrical Engineering, Indian Institute of Science, 2011*. [[pdf](#)]

HONORS AND AWARDS

Ranked among top participants in Numerai contests, a global crowdsourced hedge fund tournament to solve the stock market as a data science problem

Ranked 214th in HackerRank CodeSprint 5 among 4000+ participants across the world

Among 72 students selected worldwide for the Season of KDE 2011 internship program

Received University Grants Commission (Government of India) Summer Research Fellowship 2010

Among National Top 1% (250 students) selected in the Indian National Physics Olympiad 2007

Awarded Gold Merit Certificate in the 6th National Cyber Olympiad 2007