

Kaushal B. Yagnik

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EDUCATION

Master of Engineering	University of California, Berkeley (USA) <i>Electrical Engg. & Computer Science (Data Science and Systems)</i>	2018 – 2019 (expected)
Coursework	Machine Learning, Visualizing Deep Neural Networks, Optimization Models, Principles of Data Science, Organizational Behaviour, R&D Tech Management, Tech Strategy for Engineering Leaders, Entrepreneurship for Engineers	
Bachelor of Technology	Indian Institute of Technology Ropar (India) <i>Computer Science and Engineering</i>	2012 – 2016
Coursework	Machine Learning, Artificial Intelligence, Computer Vision, Operating Systems, Computing Platforms, Database Management	

PROFESSIONAL EXPERIENCE

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- **Data & Applied Scientist, Microsoft Bangalore** (June 2016 – July 2018)
 - Worked in the Bing Ads division at Microsoft Bangalore towards optimizing the revenue generated.
 - Stochastic Modelling techniques, pricing rules in auction theory, improving prediction models, storage optimizations, are some areas where I made impactful contributions.
 - Won the best poster award in Analytics track at AMPERE 2018 (an internal Microsoft Conference) for modification to a pricing algorithm to address seasonality.
 - **Software Development / Machine Learning Intern, Microsoft Bangalore** (May – Jul 2015)
 - Working in Phishing and Anti-Fraud sections of the Bing Ads platform, I engineered better features to existing ML models, reduced memory requirements, orchestrated a seamless workflow for deployments.
 - Designed an automated near-real time solution to detect and notify about phished website/s.

PUBLICATION AND AWARDS

Gaurav Mittal, **Kaushal B. Yagnik**, Mohit Garg, and Narayanan C. Krishnan. “**SpotGarbage: Smartphone App to Detect Garbage using Deep Learning.**” At 2016 ACM UBICOMP. (link: <http://dl.acm.org/citation.cfm?id=2971731>)

- Detect garbage in unconstrained real-world images using Convolutional Neural Networks. An Android App was made to deploy an optimized version of the model on a smartphone to check its feasibility. (YouTube video: <https://bit.ly/2QZqiFY>)
- Won various national awards including **Microsoft Imagine Cup India**, INAE (Indian National Academy of Engineering) Innovative Student Project Award, and Young Innovator Award, College Section, MeltingPot2020 Innovation Summit

MAJOR PROJECTS

(GitHub links on <https://kbyagnik.github.io/projects/>)

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1. **Fake News (Capstone Project)**: Currently leading my capstone project team to study the spread of misinformation and fake news on a mobile platform like WhatsApp. Developed an Android app to collect WhatsApp user data to get training data for ML models.
 2. **Tweet Analysis**: Performed sentiment analysis on tweets by President Trump during the 2016 Elections using VADER.
 3. **SmartPlay (Microsoft OneWeek Hackathon 2017)**: Offline, personalized playlist generation which uses MFCC audio features of a song to get the mood of the song using a pretrained model to enqueue it in ‘Now Playing’ list. (Python)

SKILLS

Programming Languages	Python (numpy, sklearn, pandas, matplotlib etc), RAY, TensorFlow, Keras <i>Familiar:</i> MATLAB, Android, C#, C/C++, Java
Big-Data	SQL, MapReduce, #COSMOS, #SCOPE, #PowerBI (#Microsoft internal)
Web Development	Django, PHP, WAMP / LAMP, Latex, Jekyll-Ruby