Kaushal B. Yagnik

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EDUCATION

Master of Engineering	**University of California, Berkeley (USA)** ***Electrical Engg. & Computer Sc. (Data Science and Systems)***	2018 – 2019
Coursework	Optimization Models, Machine Learning, Principles of Data Science, Organizational Behaviour, R&D Tech Management, Communication for Leaders	
Bachelor of Technology	**Indian Institute of Technology Ropar (India)** ***Computer Science and Engineering***	2012 –2016
Coursework	Machine Learning, Artificial Intelligence, Computer Vision, Operating Systems, Computing Platforms, Database Management	

PROFESSIONAL EXPERIENCE

- **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, pricing rules in auction theory, improving prediction models, storage optimizations are some broad areas I contributed to.
  - Won Best poster award in Analytics track at AMPHERE 2018 (an internal Microsoft Conference).
- **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 state-of-the-art computer vision and machine learning techniques (using Convolutional Neural Networks). An Android App was made to deploy an optimized version of the model on a smartphone to check its feasibility.
- 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

PROJECTS

(Minor course projects on https://kbyagnik.github.io/projects/)

1. ***Fake News (Capstone Project):*** Currently working with a team guided by Dr Ranade to study the spread of misinformation and fake news among social media platforms.
2. ***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)
3. ***TraKinesics****:* Manoeuvre screen-pointer using image processing techniques on hand-gestures from a webcam feed (MATLAB).

SKILLS

Programming Languages	Python (Anaconda/ Jupyter), Java, C/C++ *Familiar:* MATALB, R, Android, C#, TensorFlow
Web Development	Django, PHP, WAMP / LAMP, Latex, Jekyll-Ruby
DBMS	SQL, COSMOS & SCOPE (Microsoft internal Big Data platform language)

LEADERSHIP AND EXTRA-CURRICULARS

- **Student representative** to **Career Cell** at UC Berkeley (Sep '18 – now) and IIT Ropar (Aug '14 – Apr '16)
- Elected member to the IIT Ropar Alumni Association Executive Council (Feb '17 – present)