

Akarsha Sehwag



aksh98.github.io



linkedin.com/in/akarshasehwag/



akarsha285@gmail.com



+91 9971408507

Education ———

B.Tech | Computer Science Engg IIIT Delhi | 2019 | GPA:7.6/10

Senior Secondary Board (Class XII) Delhi Public School | 2015 | 92 %

Secondary Board (Class X) Adarsh Public School | 2013 | 10/10

Skills ——

TOOLS AND TECHNOLOGIES:

Pandas • Pytorch • Tensorflow •
OpenCV • Git • GeoPandas • PySpark •
sklearn • Brandwatch • MongoDB •
Kafka • Kibana • MySQL •
ElasticSearch • AutoCAD • h3/s2

PROGRAMMING LANGUAGES:

Python • C • C++ • Java • LATEX • SQL

SPOKEN LANGUAGES:

English, Hindi, German(A2 level)

Achievements —

- Dean's Award for Innovation in Research and Development.
- Scholarship worth \$2800 for attending ElasticON in San Francisco.
- Academic Excellence Award(School)
- School Topper in NSTSE (Rank <300 All India level).

Extra-Curricular —

- Community Organizer | Elastic, Delhi
- Organizer & Mentor | Django Girls, Lisbon
- Core Team | PyLadies, LinuxChix
- Coordinator | Creative Arts Club
- Badminton Captain | Sports Council
- Event Head | Tech-fest'17
- Organizing Team | Tech-Fest'16
- Student Mentor | IIITD

Work Experience

June'19 - Now Associate Data Scientist | Airtel X Labs

- Engineering features for Customer Segmentation of 300M+ active Airtel users to suggest relevant packs to users and reduce the pipeline bandwidth from 7M sms/day to <0.2M relevant sms/day.
- User Employment-type identification for targeted marketing campaigns.

Jan-Apr'19 Artificial Intelligence Intern | UnternehmerTUM, Munich

- Created a working prototype of our product, that lets foreign tourists experience a city based on their interests through tours guided by an autonomous (Level 4) car.
- Implemented Agile development principles along with design thinking, User Story Map & solution validation methodologies.
- Communicated cross-functionally in a diverse team and drived the engineering efforts in the team.

Company sponsors: Audi, BMW and ADAC. Reference: Dr. Afsaneh

May-Dec'18 Data Science Intern | Stanford Univeristy

- Predict time series data on national level and map it to all the states. Achieved state-of-the-art results. (Journal in writing)
- Predicted change in contribution and productivity of STEM workers in the financial sector using NLP models. *Reference: Dr.Christos*
- Worked with <u>Prof. Prithwiraj Choudhury</u> from Harvard Business School on the analysis & predictions of salary variations w.r.t. country and companies.

Jan-Dec'18 Undergrad Researcher | Image Analysis and Biometrics Lab

- Achieved state-of-the-art on deceiving Face PAD algorithms. (More than 30% improvement in the accuracy/PAD error rate.)
- Developed a new architecture of GANs to input two images and generate morphed images.
- Worked on Attribute Classification in Low-Resolution images. Advisors: Dr. Richa & Dr. Mayank

May-Dec'17 Chief Operations Officer | Invadex

A ML SaaS product - Alongside product development, responsible for evaluating internal workforce, to bring in the best value to our partners and handling the operations.

- Represented it in Web Summit'17 (Portugal) and got Malaysian investors for \$0.5M.

Publications

2019	Deceiving the Protector: Fooling Face Presentation Attack De-
	tection Algorithms

IAPR International Conference on Biometrics, Greece

2019 Deceiving Face Presentation Attack Detection via Image Transforms

IEEE International Conference on Multimedia Big Data, Singapore

2018 Rise of the "Quants" in Financial Services: Regulation and Crowding Out of Routine Jobs (Acknowledgment)

Projects

- **Detecting Combined Identities**: Used GANs to generate the morphed images/videos and Deep Learning models like VGG'16 to detect forgery.
- **Github User Recommendation system:** Recommended Github Users for Github Projects/Organizations based on the user's activities in Github and StackOverflow.
- Audio Super-Resolution: Used 5 Machine Learning models (GANs, Hidden Markov Model, AutoEncoder, Convolutional Neural Network and Long Short-Term Memory Network) to generate a high resolution signal from a low resolution audio with a smaller sampling rate.
- Other Machine Learning / Development projects listed here: [Github Link]