



Akarsha Sehwaag

- ✉ akarsha285@gmail.com
- ☎ +91 9971408507
- 🌐 github.com/aksh98
- 🌐 linkedin.com/in/akarshasehwag/

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 '16
- Event Head | Tech-fest'17
- Organizing Team | Tech-Fest'16

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. Also, generated useful insights for companies from user interviews & product testing.
 - Implemented Agile development principles along with design thinking, User Story Map & solution validation methodologies.
 - Communicated cross-functionally in a diverse team and drove the engineering efforts in the team.
- Company sponsors: Audi, BMW and ADAC. *Reference: [Dr.Afsaneh](#)*

May-Dec'18 **Data Science Intern | Stanford University**

- 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 [Prof. Prithwiraj Choudhury](#) 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

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|------|--|
| 2019 | Deceiving the Protector: Fooling Face Presentation Attack Detection 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: [\[Github Link\]](#)