

Arpit Gogia

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Senior undergraduate in mathematics and computing engineering passionate about data science, machine learning, science and their applications in day to day life.

Work Experience

- Ixigo** **Gurgaon**
Software Development Engineer *May 2018 - Present*
Working on the Trains iOS application
- Precog Research Lab, IIIT-D** **Delhi**
Research Intern *December 2016 - May 2018*
Worked on research problems centered around privacy and security on online social media, using data science and machine learning techniques.
- C Simplify IT** **Gurgaon**
Android Developer *June 2015 - July 2015*
Worked on developing an Android based POS system for an existing business customer

Education

Academic Qualifications.....

- Delhi Technological University** **Delhi**
B. Tech. Mathematics and Computing, agg. 74.585% upto 6th semester *2014-2018*
- Delhi Public School, Vasant Kunj** **Delhi**
All India Senior Secondary Certificate Examination, 95.2% with 99 in Math and 97 in CS *2012-2014*
- Delhi Public School, Gurgaon** **Gurgaon**
All India Secondary School Examination, 10 CGPA *2012*

Other Courses and Certifications.....

- Udacity** **2016**
Machine Learning Engineer Nanodegree
- Udacity** **2016**
Deep Learning
- University of Michigan on Coursera** **2016**
Data Structures with Python
- Hong Kong University of Science and Technology on edX** **2014**
Introduction to Computing with Java

Publications

- Gupta, S., Khattar, A., **Gogia, A.**, Kumaraguru, P. and Chakraborty, T., Collective Classification of Spam Campaigners on Twitter: A Hierarchical Meta-Path Based Approach, **WWW 2018** [↗](#)

Projects

- **Comparative Study of Image Regeneration Techniques**

Studied common image regeneration models namely, Principal Component Analysis, simple, convolutional, variational and deep auto-encoders, and generative adversarial networks. All the analysis was done using **Python, TensorFlow and Keras**

- **Facial Emotion Recognition**

Worked on recognizing emotions from a custom curated facial dataset with varying angles and lighting conditions. The model comprised of Haar cascades and multiple convolutional networks. All the analysis was done using **Python** and **TensorFlow**.

- **Gender Recognition using Audio**

Developed a Python Program that could detect the gender of a person from live recorded audio. The training dataset was obtained from Kaggle and the classifier used active learning to improve over time. Signal based features were calculated with the help of the **RPy** module, and all analysis was accomplished using **NumPy, SkLearn, and SciPy**

- **Self Driving Car Agent**

Developed a self driving car agent as part of the Udacity Machine Learning Engineer Nanodegree. The agent used reinforcement based Q Learning technique to navigate a map with traffic, while obeying American road traffic rules.

- **Image Recognition on SVHN Dataset**

Developed my first ever convolutional neural network as part of the Udacity Machine Learning Engineer Nanodegree. All analysis was done using TensorFlow and Python.

- **Sublime CodeIniter**

An extension for Sublime Text that allows you to initialize files with a customizable code snippet. The code snippet can be specified in a JSON for each specific file formats. The code is available **here**.

- **QR Money**

An Android application that allows easy exchange of money by using QR Codes as user identifiers. Built this for the FinTech track at IndiaHacks 2016, ranked 15 among thousands of teams across India.

- **Foodify**

An Android application that let's take a picture of your meal and keep track of your daily calorie intake. The app can also suggest you recipes based on your daily calorie limit

Distinctions

- **Google Summer of Code**

- *Mentor for WorldBrain, improving the performance of text search for the Chrome extension* 2017

- **Udacity**

- *Certified Project Reviewer and Mentor in the machine learning domain* 2017

- **Computer Society of India, Delhi Technological University**
Technical Head, in-charge of all technical competitions, maintaining the website and Android app 2016
- **BITS, Troika 2017 by IEEE**
Rank 1 in the Data Science Competition 2017
- **IndiaHacks**
Rank 15 all over India in the FinTech Hackathon 2016
- **IndiaHacks**
Rank 19 all over India in the eCommerce Hackathon 2016

Open Source Contributions

- **WorldBrain**
JavaScript and Data Science September 2016 - Present
 Building a Chrome extension that allows full text search across a user's visited webpages and bookmarks
- **Italian Mars Society**
Python 2017
 Building a communication protocol for Internet of Things devices.

Technical Skills

- **Programming Languages:** Swift, C++, Python, Java, \LaTeX , HTML, JavaScript, Node.js, Markdown,
- **Frameworks and Technologies:** iOS, Django, Flask, TensorFlow, SkLearn, NumPy, Pandas
- **Operating Systems:** MacOS (current), Ubuntu and Linux Mint with Unity, KDE, GNOME, Cinnamon, Microsoft Windows
- **Tools:** Vim, Visual Studio, Visual Studio Code, Atom, IntelliJ Idea, Sublime Text