# Abdul Fatir **Ansari**

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Interests

Generative models, interpretability, Bayesian deep learning, computer vision, causal learning.

Education

#### **National University of Singapore**

2017 - 2021 (expected)

*Ph.D. in Computer Science* Advised by Prof. Harold Soh

#### Indian Institute of Technology, Roorkee

2013 - 2017

B.Tech. in Civil Engineering

## Internships

## **Google Summer of Code 2017**

Summer 2017

Mentored by Prof. Tomas Helikar

Computational Biology @ University of Nebraska-Lincoln

Mobile Based Blood Analysis (iOS): Fine-tuned the algorithm from the previous iteration of GSoC and ported it to iOS.

## Google Summer of Code 2016

Summer 2016

Mentored by Prof. Tomas Helikar

Computational Biology @ University of Nebraska-Lincoln

Mobile Based Blood Analysis (Android): Developed an algorithm and an Android app to estimate concentration of biomarkers in blood using blood sample images.

#### MapmyIndia, New Delhi

Summer 2016

With Vikas Ranga and Rohan Verma

Developed tools for privacy protection in street view images and traffic sign recognition.

## Sanibridge Inc, Omaha, Nebraska (remote)

Winter 2015, Spring 2016

With Prof. Tomas Helikar

Worked on the full stack development of an Android health app which lets the user track various health indicators such as glucose, cholesterol, calories, etc.

#### Scholarships

#### **NUS PhD Research Scholarship**

2017-21

Merit-cum-Means Scholarship (Ministry of Minority Affairs, India)

2013-17

## Journal Articles

# [2] Exercise Classification and Event Segmentation in Hammersmith Infant Neurological Examination Videos

A. F. Ansari, P. P. Roy, D. P. Dogra *Machine Vision and Applications*, 2018.

## Conference Papers

## [1] Hyperprior Induced Unsupervised Disentanglement of Latent Representations

A. F. Ansari, H. Soh

AAAI Conference on Artificial Intelligence (AAAI), 2019, Spotlight.

Side twitter-sentiment-analysis [github.com/abdulfatir/twitter-sentiment-analysis]

Projects Keras code for sentiment analysis of tweets using Naive Bayes, SVM, CNN, LSTM, and a number

of other models. Originally developed for a course project.

normalizing-flows [github.com/abdulfatir/normalizing-flows]

Review repository of various works on normalizing flows. Includes tensorflow code for Rezende

and Mohamed (ICML '15). Originally developed for a course project.

prototypical-networks-tensorflow [github.com/abdulfatir/prototypical-networks-tensorflow]

Tensorflow code for the ProtoNet model from Snell et al. (NIPS '17).

Teaching CS2040: Data Structures and Algorithms, National University of Singapore Spring 2018

Experience Teaching Assistant with Prof. Tan Sun Teck

CS2102: Database Systems, National University of Singapore Fall 2018

Teaching Assistant with Prof. Stephane Bressan

Professional Reviewing

Activities AAAI Conference on Artificial Intelligence (AAAI) 2019

Extra Executive Editor, Kshitij - The Literary Magazine, IIT Roorkee

Curricular Member, Himalayan Explorers' Club, IIT Roorkee