Abdul Fatir Ansari

Education

2017 – present   **Ph.D.** in **Computer Science**, *National University of Singapore*, Singapore.
Representation Learning in Deep Generative Models.
Advised by *Dr. Harold Soh*.

2013 – 2017   **Bachelor of Technology** in **Civil Engineering**, *IIT Roorkee*, India.

Research Interests

● Generative Models ● Interpretable ML ● Deep Learning ● Causal Learning

Internships

Apr. – Aug. 2017   **Google Summer of Code**, *mentored by Dr. 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.

Apr. – Aug. 2016   **Google Summer of Code**, *mentored by Dr. 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.

May – Jul. 2016   **MapMyIndia**, *New Delhi*, India.
○ *Privacy Protection in Street View Images*: Worked on automatic detection and blurring of faces and vehicle license plates in street view images.
○ *Traffic Sign Recognition*: Worked on traffic sign recognition in Street View images using Convolutional Neural Networks.

Dec. 2015 – Apr. 2016   **Sanibridge, Inc.**, *Omaha*, Nebraska, USA (*remote*), mentored by *Dr. Tomas Helikar*.
Sanibridge Health App: Worked on the full stack development of an Android health application which lets the user track various health indicators such as Glucose, Cholesterol, Calories, *etc.*

Publications

Journal Articles

2018   *Exercise Classification and Event Segmentation in Hammersmith Infant Neurological Examination Videos.* **Ansari AF**, Roy PP, Dogra DP, *Machine Vision and Applications*, February 2018.

Conference Papers

2019   *Hyperprior Induced Unsupervised Disentanglement of Latent Representations.* **Ansari AF** and Soh H, *AAAI Conference on Artificial Intelligence (AAAI-19)* (*accepted*).

Teaching

National University of Singapore

Spring 2018   **CS2040**, *Data Structures and Algorithms.*
Delivering lab sessions and grading.

Fall 2018   **CS2102**, *Database Systems.*
Delivering tutorial sessions and grading.

Scholarships

2017 – 2021   NUS PhD Research Scholarship

2013 – 2017   Merit-cum-Means Scholarship by *Ministry of Minority Affairs, India*

Skills

Programming Languages	Python, Java, C++, Swift, MATLAB	**Deep Learning Frameworks**	Tensorflow, Pytorch, Keras
Databases	MySQL, Oracle, SQLite	**Typography**	LaTeX

Professional Activities

Reviewing

2019   AAAI Conference on Artificial Intelligence (AAAI)

Extracurricular Activities

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

Member   Himalayan Explorers' Club, IIT Roorkee