

## Address

509 Bash Ct., Apt 304  
Champaign, IL - 61820

## Tel & Skype

+1 (721) 721-9031  
jishnukey.kgp

## Mail

jdey2@illinois.edu  
jishnukey.kgp@gmail.com

## Web

jishnu-d.github.io

## Technical

C, C++ ★★★★★  
Python ★★★★★  
Java, Android ★★★★★  
Git ★★★★★  
SQL ★★★★★  
HTML, CSS ★★★★★

## Coursework

Deep Learning\*  
Adv. Information Retrieval\*  
Algorithms  
Machine Learning  
Probability and Statistics  
Adv. Operating Systems  
Digital Signal Processing  
Financial Markets

\* Ongoing

## Achievements

**Samsung Citizen Award** -  
Innovator (Aug 2017)  
**IIT-JEE 2012** - All India  
Rank 534 (99.91 %ile)  
**Tech GC Math Olympiad** -  
Gold Medalist (2013)  
**Regional Math Olympiad**  
2011 - Qualified (9<sup>th</sup> Rank)  
**CAT 2017** - 99.99 %ile  
**GRE** - 334 (V-164, Q-170)

# Jishnu DEY

Grad Student - CS@Illinois

## Education

### M.S. in Computer Science

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN  
Adviser: Prof. ChengXiang Zhai

Aug 2018 - Present

### B.Tech. in Electronics and Electrical Communication Engineering

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR | GPA: 9.36/10  
Thesis: Distributed Deployment of Wireless Sensor Networks

Jul 2012 - May 2016

## Experience

### Senior Software Engineer

*Advanced Technologies Lab, SAMSUNG R&D INSTITUTE INDIA - BANGALORE*

Mar 2018 - Jul 2018

- Construction of a large database of Indian foods and framework for food recognition using deep learning
- Commercialization of *InstaBP* - An Android app for blood pressure measurement

### Software Engineer

*Advanced Technologies Lab, SAMSUNG R&D INSTITUTE INDIA - BANGALORE*

Jun 2016 - Feb 2018

- Research towards alertness estimation using Samsung Gear's PPG sensor
- Prototyping of various machine learning models for *InstaBP* and deployment on the Android platform

### Summer Intern

*Advanced Technologies Lab, SAMSUNG R&D INSTITUTE INDIA - BANGALORE*

May 2015 - Jul 2015

- Improvement of heart rate estimation during intense exercises on Samsung Gear
- Received a full time job offer at the end of internship

### Research Intern

*Center for NanoScience & Engineering, INDIAN INSTITUTE OF SCIENCE BANGALORE*

May 2014 - Jul 2014

- Modeling of mutual potential between nanopropellers and MATLAB simulation

## Publications

**Jishnu Dey**, Aman Gaurav, Vijay Narayan Tiwari. "InstaBP: Cuff Less Blood Pressure Monitoring on Smartphone Using Single PPG Sensor." 2018 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC). Year: 2018.

**Jishnu Dey**, Tanmoy Bhowmik, Saswata Sahoo, Vijay Narayan Tiwari. "Wearable PPG sensor based alertness scoring system." 2017 39th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC). Year: 2017. Pages: 2422 - 2425. [Link]

Tanmoy Bhowmik, **Jishnu Dey**, Vijay Narayan Tiwari. "A novel method for accurate estimation of HRV from smartwatch PPG signals." 2017 39th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC). Year: 2017. Pages: 109 - 112. [Link]