

Address

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

Tel & Skype

+1 (217) 721-9031
jishnukey.kgp

Mail

jidey2@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 (9th 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 | GPA: N.A.
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

- Achieved area coverage of P2P sensor nodes through distributed optimization

Jul 2012 - May 2016

Experience

Senior Software Engineer

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

- 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

Mar 2018 - Jul 2018

Software Engineer

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

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

Jun 2016 - Feb 2018

Summer Intern

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

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

May 2015 - Jul 2015

Research Intern

Center for NanoScience & Engineering, INDIAN INSTITUTE OF SCIENCE BANGALORE

- Modeling of mutual potential between nanopropellers and MATLAB simulation

May 2014 - Jul 2014

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]