# Imran Ahmed Manzoor


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## Education

2014 – 2018 **PES University**
B. Tech, Computer Science
*Bangalore, India*

## Selected coursework

Machine Learning[1]
Algorithms for the Intelligent Web[1]
Data Science
Big Data
Software Defined Networks
Storage Area Networks
UNIX Systems Programming
Operating Systems
Google TensorFlow Study Jam[2]

## Awards

Oct 2017 **Smart India Hackathon**
*Innovation award for a "cloud-based real-time intelligence platform" enabling the collection analysis of large-scale text data from social media platforms.*

Oct 2016 **Bosch Hackathon**
*Winner for project "Darwin"; fully-funded invitation to present at the Bosch Smart Manufacturing Conclave in Mumbai.*

## Languages & Tools

Proficient Python[3] with *scikit-learn*, Java, Javascript with *Node.js*, HTML/CSS with *Bootstrap*

Familiar C/C++, PHP, MySQL

## Projects

**Hitachi Pentaho** **Jun 2017 – present**
*Research Assistant, with Prof. Prashantha Karunakar.*

- Developed a method to determine the number of molecules in the asymmetric unit of a protein using machine-learning, instead of hand-crafted rules.
- Implemented in Python using *scikit-learn*, obtaining a cross-validation accuracy of 90%.
- Targeted for submission to a journal in Jan. 2018.

**Postergeist** **Jul 2016 – Aug 2017**
*Co-founder.*

- Started with a seed investment of INR 500.
- Sold posters designed in Adobe Photoshop.
- Closed with a net profit of INR 5,000.

**CloudFlow** **Mar 2017**
*Hackathon participant, Smart India Hackathon.*

- Cloud-based text analysis platform enabling the collection, integration, storage, and analysis of large text-based data sets from Twitter and Facebook.
- Developed the front-end and wrote Python scripts for collecting location data using *geopy*.
- Won the Innovation Award and 3rd runner-up in the GoI Smart India Hackathon 2017 (https://innovate.mygov.in/sih2017/).

**Darwin** **Nov 2016**
*Hackathon participant, Bosch Hackathon.*

- Leap Motion-driven robotic arm with three degrees of freedom powered by an Arduino microcontroller.
- Interfaced with the Leap Motion to obtain point-cloud data from a human arm, and translate to motor values controlling the robotic arm.
- Developed a light server on a Raspberry Pi interfaced with the Arduino, to replace the requirement of constant laptop connectivity.
- Implemented in Python with the Leap Motion SDK.

**LabWork** **Oct 2016**
*Ongoing Project.*

- A web application designed to automate Computer Science Lab evaluation.
- Built using *Node.js* for backend, *Bootstrap* for frontend and *MySQL* for Database.
- LabWork supports C, C++, Java and Python as input languages.
- Provides analytics to discover weak areas of students.

[1] Ongoing.
[2] External workshop.
[3] Preferred.