



# Student Name

Roll Number : 170102005  
B.Tech - ECE  
Indian Institute of Technology Guwahati

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<https://akhil309.github.io/>

## Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	7.21 (Current)	2017 - Present
Senior secondary	CBSE board	85.4%	2016
Secondary	CBSE board	9.6	2014

## Projects

portfolio:<https://akhil309.github.io/>

- **Inventory Management System** *June 2019-present*  
Django based website for inventory management of Electronics Club, IIT Guwahati. User registration and authentication, transferring item, returning item and saving transactions details have been implemented.
- **Movie Recommender System** *(remote project) May 2019-June 2019*  
*International Business Machine Corporation, New York*  
Based on my Coursera course assignment, build a content based and collaborative filtering recommender system on data from IBM object storage.
- **Drowsy Driver Detection** *April 2019-May 2019*  
Face Detection and Prediction is implemented with opencv to generate an alarm whenever driver feels drowsy.
- **V-Motion** *Jan 2019-March 2019*  
*Electronics Club*  
Performed Depth Image segmentation ,Convex hull ,Contours finding, music threading using Intel RealSense camera to produce music from movement of hands.
- **Hand Gesture Controlled Mouse Cursor** *Nov 2018-Dec 2018*  
*Electronics Club*  
Worked on vision based gesture recognition and tracking with histogram model, back-projection and mouse interfacing using pyautogui.

## Technical skills

- **Computer languages** : C, C++, Python, Java \*, MATLAB\*
  - **Web technologies** : HTML, CSS, Django
  - **Database management** : MySQL
  - **Software and Tools** : Scikit-learn, pandas, Keras, opencv.
  - **Artificial Intelligence** : Machine Learning, Computer Vision.
  - **Operating system** : Windows\*, Linux
- \* Elementary proficiency

## Key courses taken

- Introduction to computing(with practicals)
  - Algorithmic Toolbox
  - Data Structure and Algorithms
  - Probability and Random Processes
  - Signal Systems and Network
  - Digital Signal Processing\*
  - Digital Circuits and Microprocessors
  - Linear Algebra
- \* To be completed in Nov 2019

## Positions of Responsibility

- **Computer Vision and Machine Learning Head**, Electronics Club IIT Guwahati. *Apr '19-present*
  - Headed and managed a team of 22 people in completing their different projects successfully.
- **PR and Branding Executive**,Techniche 2018 (Annual Techno-management fest of IITG)

## Achievements

- Best Project award and best demo project award for V-Motion in Techevince,2019.
  - Secured all india rank 4106 in jee among 0.12 million students.
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## Extracurriculars

- **Matlab workshop** : Attended a 3-day workshop on Image and signal processing.
- **Kriti** : Participated in institute label hostel technical competition and secured 4th position.
- **Manthan**: secured 3rd position in institute label group dance competition.
- Maths tutor at Prism Eduventures and doubt solver at Mytutor247.