Akhilesh Kumar

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B.Tech - ECE
Indian Institute of Technology Guwahati

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Education

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

Projects

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

- **Inventory Management System**   *Jun 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-Jun 2019*
  International Business Machine Corporation, New York
  Based on my Coursera course assignment, built a content based and collaborative filtering recommender system on data from IBM object storage.

- **Drowsy Driver Detection**   *Apr 2019-May 2019*
  Face detection and prediction is implemented with opencv to generate an alarm whenever driver feels drowsy.

- **V-Motion**   *Jan 2019-Mar 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   ** 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   **ongoing course*

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.
- **City Representative,** Technothlon 2018.
- **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.

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.