

AAYUSH RAJ

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Final Year Student At IIIT-A

EDUCATION

Indian Institute of Information Technology, Allahabad

B. Tech, Electronics & Communication Engineering	CGPI – 8.59 (Till 6 th Semester)	2018 - 2022	Prayagraj
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Manipal Public School

XII (CBSE Board)	Percentage – 93.4%	2017	Lucknow
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Manipal Public School

X (CBSE Board)	CGPA – 9.8	2015	Lucknow
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SKILLS

- **Programming Languages:** C/C++, JAVA, Python (basic), MATLAB (basic)
- **Subjects:** OS (Operating Systems), DBMS (Database Management System), OOP (Object Oriented Programming), Data Structures and Algorithms

PROJECTS

- **Health Stick**
 - Designed a health stick for assisting visually impaired people with ailments like diabetes and hypertension
 - Assembled an IOT based model with sensors providing highly precise results for a range of 13 metres
 - Operated ultrasonic & heart rate sensors with the help of microcontroller development board ARDUINO
- **Drowsy Driver Detection System**
 - Developed a Drowsy Driver System with the aim of reducing road accidents on basis of facial landmarks
 - Designed a real time python-based system using OpenCV and Dlib to calculate Eye and Mouth aspect ratio based on the video input of driver obtained using a Pi Cam integrated with Raspberry Pi
 - Obtained results with accuracy of 93% when tested on several people under different lighting conditions
- **Web Based Note Maker**
 - Developed a web-based note making application to create and manage notes in an effortless way
 - Implemented the application using Servlets, JSP and MySQL along with Hibernate Framework

POSITION OF RESPONSIBILITY

- **Member IIIC** (IIITA Info-Communication Incubation Center)
 - Organised E-Summit 2019 which had a participation of more than 500 students across various colleges
 - Conducted B-Hacks 2019 a business hackathon which had a participation of more than 100 students
- **Volunteer Effervescence** (Annual Cultural Fest)
 - Organised multiple events during effervescence 2018 and increased the participation by substantial numbers

ACHIEVEMENTS

- Won Award for Best Hardware Hack, in Prototype'19, a 36-hour hackathon organized by IIIT-A. Built Health Stick for assisting a visually impaired person suffering from ailments like diabetes and hypertension
- Winner Electrobuzz, in Aprojaksha'19 (Annual Techfest of IIITA)
- Secured 99.21 percentile among 1.2 million students in JEE MAIN – 2018.
- Selected in UPSTSE 2017 and got merit reward