

Nayan Deshmukh

2nd year Undergraduate Student

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ACADEMIC DETAILS

Year	Program/Board	Institute	CGPA/%
2014-present	Bachelor of Technology, Computer Science and Engineering	Indian Institute Of Technology Kanpur	9.6/10.0
2014	All India Senior School Certificate Examination	Vidhya Mandir Sr. Sec. School Kota, Rajasthan	93.2
2012	All India Secondary School Examination	St. Jude's Hr. Sec. School Khargone, M.P.	10.0/10.0

SCHOLASTIC ACHIEVEMENTS

- Secured **AIR-184** among 150,000 students in **JEE Advanced 2014**
- International Mathematics Olympiad 2012 (SOF)** : Secured **State Rank-3** in Madhya Pradesh
- National Science Olympiad 2012 (SOF)** : Secured **State Rank-14** in Madhya Pradesh

PROJECTS

ZIZO101: Social Robot

May'15 - June'15

Electronics Club Project

- Developed an animatronics head capable of human interaction via speech and through its Twitter handle
- Used Radxa Rock as the main development board along with Arduino Mega for controlling servos and Python as the primary language
- Implemented Speech to text using Google's speech API, Artificial Intelligence through Pandorabots API, text to audio using eSpeak and connected to Twitter using TweetPony API

Android Open Source Library

Jan'15 - April'15

Independent Project

- Developed an Open-Source Library for Android which collects data on time spent by user on each app
- Explored various ways to calculate the time spent by user on each ways and implemented the most efficient one
- Developed a background service which would run at specific intervals and record the application which was running in foreground at that time and store it in SQL database

Stable Marriage Problem

Oct'15 - Nov'15

Course Project under Dr. Rajat Mittal (Assistant Professor, IIT Kanpur)

- Studied the Stable Marriage Problem and Analysed the proof of the algorithm to solve it
- Studied various standard techniques used in solving the problem and its variants
- Analysed theorems regarding existence of a stable marriage in case of incomplete lists

Android Application

Jan'15 - April'15

Project under Association for Computing Activities, IIT Kanpur

- Developed an Android Application which collects user data and statics like time spent by user on each app, data send and received by each app
- Explored basic UI elements used in android applications like textbox, buttons, lists, actionbar

Electromania, ECDC

Mar'15

Techkriti-'15 (Annual Technical Festival of IIT Kanpur)

- Implemented a space battle game on a self-fabricated 12*12 LED matrix on ATmega8 micro-controller
- Multiple LEDs were displayed using the principle of Persistence of Vision
- Stood **1st** among 25 teams participating in the event

POSITIONS OF RESPONSIBILITY

- Secretary, Electronics Club, IIT Kanpur**
 - Assisted in organizing various events and competitions conducted by Electronics Club IIT Kanpur
 - Designed the site of the electronics club using HTML5, CSS3 and javascript
 - Organized a 15 day workshop to teach basic electronics and embedded system to first-year students

TECHNICAL SKILLS

- Programming Language: C, Python, Java, HTML, JavaScript, bash
- Software Experience: Android Studio, Processing, OpenCV, Microsoft Visual Studio, Git, LaTeX, Paho MQTT
- Development Platforms: Atmel AVR, Arduino, Radxa Rock

INTEREST AND HOBBIES

- Fine Arts especially pencil sketching, Swimming, Squash, Yoga and solving rubik's cube