Divyanshu Saxena

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EDUCATION AND ACADEMIC DETAILS

Degree/Exam	Institution	CGPA/%age	Year
B.Tech, Computer Science & Engineering	Indian Institute of Technology, Delhi	8.382	2020 (Exp.)
ISC	City Montessori School, Lucknow	96.50%	2016
ICSE	City Montessori School, Lucknow	96.80%	2014

PROJECTS

Person Counter and Display Device - DISA

[Prof. Subodh Kumar, May 2017-Present]

- This project was developed as a part of the **Design Innovation Summer Award (DISA).**
- Used OpenCV and Python to process images taken in a room to count the number of people in the specified range.
- Implemented on-site real-time processing using Beaglebone. Results can either be displayed or sent via mail to a pre-specified authority.

Secure Access Logging with Vulnerability Analysis

[IoT Project, July 2017 – Present]

- Project ongoing under the mentorship of Samsung IoT Lab at IIT Delhi and shall be done in two modules.
- First module is to develop a logging system in Iotivity to log every access to all the resources present, the resources under scan would be system defined resources and user defined resources.
- The second module of the system is rule based vulnerability analysis module.

Maze solving Line following Robot

[Winter Project in Robotics Club, Nov 2016 - Dec 2016]

- Developed a line following robot using Arduino, IR sensors, etc.
- Modified Djikstra's algorithm for solving mazes by traversing through it first and then processing it.
- Participated in Techfest, IIT Bombay in the maze solving competition.

Road Accidents Data Portal

[Jun 2017 – Aug 2017]

- Developed a portal to get easy access to road crashes data in India and present it in an interactive manner.
- This portal was launched by the Ministry of Road Transport and Highways (MoRTH), India.

Study Portal

[*Apr 2017 – Aug 2017*]

 Developed a crowd-contributed web portal, using Django framework, for study purposes for the students of IIT Delhi.

RELEVANT COURSES

Computer Science: Introduction to Computer Science, Data structures*, Digital Logic and System Design*, Discrete Mathematical Structures*, Special Module on Internet of Things*

Mathematics: Linear Algebra, Calculus, Probability and Stochastic Processes*

*Courses currently pursuing

SCHOLASTIC ACHIEVEMENTS

- JEE (Advanced): Secured All India Rank 64 for admission to IITs among a total of 1.5 million students.
- **Kishore Vaigyanik Protsahan Yojana (KVPY):** Achieved All India Rank 61 in KVPY organised by IISc, Bangalore and Department of Science and Technology, Government of India; was awarded a fellowship for the same.
- **National Standard Examination in Physics (NSEP):** Qualified NSEP twice in 2014-15 and 2015-16, being in top 1% in the country.
- National Standard Examination in Chemistry (NSEC): Qualified NSEC the year 2015-16, being in the top 1% in the country.
- National Talent Search Examination (NTSE): Selected as NTSE scholar in 2012, conducted by NCERT.

TECHNICAL SKILLS

Advanced: Java, Python, HTML, CSS, JQuery, Git, Arduino, Xilinx ISE, Vivado

Intermediate: Android, OpenCV, PHP, AngularJS, Django, Bootstrap, Autodesk Inventor, Linux, Iotivity, VHDL

Basic: C++, NodeJS, Shell, Visual Studio

EXTRA-CURRICULAR ACTIVITIES

- Indian Road Safety Campaign:
 - As a member of the Technical Arm of IRSC, worked on a road accidents data portal which was later launched by the Ministry of Road Transport and Highways (MoRTH)
 - Supervised a Technical Internship of two IIT Delhi students with DIMTS (Delhi Integrated Multimodal Transit System Ltd.)
 - Worked on Technical collaborations with various companies in the field of road safety.
- An Initiative for National Advancement (AINA): Member of AINA, which is a club aimed at grooming students so that they realise their duty as a part of the society.
- Robotics Club, IIT Delhi: Member from November 2016 to February 2017
- Software Development Club, IIT Delhi:
 - Member from February 2017 to present
 - o Developed a crowd-contributed study portal for the use of IIT Delhi students
 - Actively participated in promoting applied computer science culture in the college
- Inter-Hostel Dance Team: Participated in Group Dance Event, in January 2017 and Duo+ Dance Competition, held in September 2017
- Best Fresher for 2016-17

POSITIONS OF RESPONSIBILITY

- Secretary, Web Team, Indian Road Safety Campaign (Sept 2017 Present)
- Student Partner at Microsoft Student Partnership (MSP) Program (Aug 2017 Present): Selected to represent Microsoft at IIT Delhi
- Executive, Technical Arm, Indian Road Safety Campaign (Jan 2017 Aug 2017)
- Web Executive, Alumni Affairs and International Program, IIT Delhi (Jun 2017 Present)
- **Team Head, Creative (Design and Decorations) Team, Tryst 2017** (Jan 2017 Feb 2017): Actively participated in the creative team of Tryst, 2017 the technical fest of IIT Delhi
- Web Executive, Student Mentorship Program (SMP), IIT Delhi (May 2017 Present)