RAHUL JAIN

ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	B.Tech in Electrical Engineering	Indian Institute of Technology, Delhi	9.518
2017	CBSE	Maharishi Vidya Mandir, Jabalpur	92.4/100
2015	CBSE	Tara Convent School, Malerkotla	10/10

SCHOLASTIC ACHIEVEMENTS

- **JEE Advance:** Secured A.I.R 304 **JEE Mains:** Secured A.I.R 292 among 1.5 million aspirants
- **IITD Semester Merit Award:** IITD Semester Merit Award for being in top-7% in 3 semesters consecutively
- **KVPY :** Qualified for Research Fellowship by Department of Science and Technology in 2016 and 2017
- **National Science Examination, Physics**: Awarded Merit certificate for being top 1% in state.

INTERNSHIPS

- **NVM and Neuromorphic Research Group (Supervisor: Prof. Manan Suri)**   (May, 2019 - July, 2019) :
  Development of module for Semiconductor Characterization Test Setup
  - Developed a program to synchronize Keithley parameter analyzer with external electronic peripherals using KXCI & KITE
  - Created Virtual Instruments in LabView for interfacing with hardware devices Arduino, External DAC etc
  - Deployed an End-to-End solution based on PyQt5-tools, Flask server and MySQL Database for storing and sharing of data
- **Docri , New Delhi** (May, 2018 - July, 2018) : *DOCRI Web Application:*
  - Developed a real-time collaboration and document authoring tool with unique information collection tools
  - Worked on Phoenix & React.Js Framework; Designed algorithms to sort hyperlink meta-data to improve user experience

PROJECTS

- **Career Counselling Through Machine Learning (Prof. Saurabh Paul)**   *(4 Year. Long Project)*
  - Development of models for classification and rating of different user profile for a career
  - Created a skill-vs-skill, skill-vs-career Matrix from web-scraped data using Natural Language Processing tools
- **Posture Enhancing Device (Prof. Saakshi Dhanekar)**   *(September,18 - October,18)*
  - Prototyped a posture enhancing device using Arduino, MYOSA Accelerators, Gyroscope and Bluetooth HC-05 Modules
  - Developed an android application to track user's posture status and alert user on detecting bad posture
- **IIT-Delhi Event Hosting Facility and Community Database (Prof. Maya Ramanath)**   *(January,19 - March,19)*
  - Developed e-Profile Management System for Students/Faculties of the Institute based on React, SQL & Flask server
- **Earthquake Distinction System (Prof. S. D. Joshi)**:   *(October,18 - November,18)*
  - Distinction of different types of earthquakes on the basis of their frequency properties using MATLAB
  - Applied Dynamic Fourier Transform and special methods of spectral estimation on the seismograms obtained from IRIS
- **Web Search Engine (Prof. Amitabha Bagchi)**:   *(September,18 - October,18)*
  - Designed using Inverted-Index and hash maps to get webpage responses on basis of relevance criteria on search query

TECHNICAL SKILLS

- **Programming Languages:** C/C++/C#, Java, Python, Elixir, SQL, Javascript, Verilog, ARM; **Tools:** Git, Arduino, AutoDesk , NI LabView, MATLAB; **Libraries and Frameworks:** TensorFlow, Keras, SciPy, Open-Cv, React, NodeJs, Flask, ProseMirror
- **Current Courses:** Computer Vision, Communication Engineering, Computer Architecture; https://github.com/rahuljain1310

POSITIONS OF RESPONSIBILITY

- **Technical Executive, Board of Student Publications** (April, 2018 - March, 2019) :
  - Responsible for designing creative posters and magazine ; Ensured hostel publicity and participation in club events
  - Worked in the management team for organizing all events in the annual literary fest of IIT Delhi, Literati 2018
- **Indoor Sports Club Rep, BRCA/BSA** (April, 2018 - March, 2019) :
  - Responsible for maintaining the culture of chess, carrom and pool in hostel by conducting various intrahostel competitions

EXTRA CURRICULAR ACTIVITIES

- **Dance**: **2nd Runner Up** in Group Dance, 2018 & **2nd Runner Up** in Duo+, 2018
- **AINA (Initiative for National Advancement):** Exploration of rural India via **Swadesh** trips to understand local culture, society, and demographic concerns of country; Participates in weekly discussions on issues: National Development & Public Policies.