RAHUL NARAYAN MEHRA

INDIAN INSTITUTE OF TECHNOLOGY DELHI

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PROJECTS

Prediction of BMI using Face Recognition
Prof. Arnab Chanda (Dept. of Bio-Medical Sciences)

📅 August 2019 - Present

- We are predicting Body Mass Index using facial features of a person.
- Applying **Deep Learning** and **Neural Networks** based model, to get required facial details through just a **selfie** clicked by the user.
- This will help people to keep a check on their Body Mass Index (BMI) on frequent basis very conveniently and will help them to stay healthy.

Enactus IIT Delhi
Prof. M.Balakrishnan (Dept. of Computer Science)

📅 October 2018 – Present

- **Co-Founder** of education based project **Alo** under Enactus IIT Delhi.
- We are working on developing an exhaustive curriculum to bridge the gap between school & college curriculum using hands on workshops.

Differential Drive Robot
Prof. Subir Kumar Saha (Dept. of Mechanical Engineering)

📅 September 2018 – October 2018

- Achieved surface line detection using Infrared (IR) sensor.
- Applied Proportional–Integral–Derivative(PID) algorithm to attain accuracy in surface line detection and we also used **Arduino** in project.
- Represented IIT Delhi in IIT Kanpur's Technical Fest - **Techkriti 2019**.

Rube Goldberg Machine
Prof. Naresh Bhatnagar (Dept. of Mechanical Engineering)

📅 October 2018 – November 2018

- Created a vertical machine to accomplish straightforward tasks through a series of convoluted steps involving chain reactions.

Buzzer Circuit - 555 Timer IC
Prof. M.Veerachary (Dept. of Electrical Engineering)

📅 March 2019 – April 2019

- Created a working Buzzer Circuit using 555 Timer Integrated Circuit and, BC547(NPN) and BC557(PNP) transistors.

TECHNICAL SKILLS

- **Programming Languages** – C, C++, Python, Java, OCaml, LaTeX, R
- **Functional Programming Languages** – SML
- **Machine Learning concepts** – Regression, Classification, Data Acquisition, KNN, Naive Bayes Classifier, Natural Language Processing(NLP), Support Vector Machines, Convolutional Neural Network(CNN)
- **Data Science Tools** – NumPy, Pandas, OpenCV, Matplotlib, Scikit-learn, Git
- **Softwares** – MATLAB, Autodesk/AutoCAD, MS Excel, Adobe Illustrator, Adobe Photoshop

RELEVANT COURSES

Data Structures and Algorithms, Introduction to Computer Science, Linear Algebra, Introduction to Statistics, Differential Calculus, Neural Networks*, Machine Learning* (*Online Course)

EDUCATION

B.Tech. in Production and Industrial
INDIAN INSTITUTE OF TECHNOLOGY (IIT) DELHI

📅 July 2018 – Present

CGPA : 7.90

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Class 12 - CBSE Board Examination
Arunodaya Public School

📅 April 2016 – April 2017

Percentage : 95%

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Class 10 - CBSE Board Examination
Arunodaya Public School

📅 April 2014 – April 2015

CGPA : 10.0

ACHIEVEMENTS

- **JEE MAINS 2018** – Ranked in National **Top 0.2%** (amongst 1,200,000+ candidates)
- **IIT-JEE ADVANCED 2018** – Ranked in National **Top 2%** (amongst 150,000+ candidates)
- **GGSIPU** – Ranked 157, Top **0.5%** (among 30,000+ candidates) in the common entrance test(CET)
- **Data Science and Machine Learning** – Online Certification Course
- **Rank 1** in school for 6 consecutive years.
- **Award** for *Extraordinary Academics Performance* in school.

EXTRA CURRICULAR

- **Hindi Samiti Club**
  Hostel Representative – Responsible for all hostel activities under this club.
- **Board For Student Publications (BSP)**
  Volunteer – BSP is IIT Delhi's electronic and print media body, run entirely by the student community.
- **Soles4Souls, United States**
  Volunteer – Spread awareness regarding their annual event – **Barefoot4Them**
- **Tryst IIT Delhi**
  Events Team Head – Tryst is IIT Delhi's **technical fest**. Member of the events management team.
- **Content Writing**
  Participated in creative writing and magazine designing competitions.