

# AMAN YADAV (2K19/IT/014)

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## EDUCATION

B.Tech (Information Technology)	May 2023	Delhi Technological University, New Delhi	8.81 CGPA (up to 6th sem)
CBSE (Class XII)	Apr 2018	Kendriya Vidyalaya AFS Tughlakabad, New Delhi	91.80%
CBSE (Class X)	Apr 2016	Kendriya Vidyalaya AFS Tughlakabad, New Delhi	10.00 CGPA

## WORKING EXPERIENCE

### ENTERPE, Web Scraper Intern

Jun 2022 - Sep 2022

- Innovated and refactored 50+ scripts and scraped data from websites and physically scanned documents.
- Tweaked and consolidated information to profile **geo-coordinates** of over **2 billion addresses** of **60+ counties** with pinpoint accuracy, using **geocoding APIs**, **QGIS**, and ( **by tricking** ) **Google maps**.
- Demonstrated **Selenium WebDriver** to automate script operations in more than 5 projects, which enhanced productivity.

### AIBOTX(AI-Toy), Machine Learning Intern

Jun 2021 - Sep 2021

- Debugged and remodeled color, alphabet, and **face-motion detection** models and improved performance by 30%.
- Devised and engineered **voice assistance** tool from scratch over **raspberry-pi** utilizing **natural language processing**, **e-Speak**, and **MBROLA voices** with **80% accuracy**.
- Launched **speech sentiment analysis** tool using self-drafted voice assistance feature, with 72% efficiency.

### PROGATE, Event Organizer Intern

Apr 2020 - May 2020

- Steered Week of Learning Program by Progate, got **250+ students** onboarded in this program.

## PROJECTS

### ClassVR, Augmented Reality Learning Platform, ([link](#))

Dec 2021

- Implemented an **augmented reality**-based learning **web app** and built fascinating **3D virtual reality** models using **a-frame** and **ar.js**. Modules include alphabets, shapes, biology, and chemical structures.
- Designed an **AR-music player** using **marker-based reality** to play more than 1 instrument concurrently and individually as-per markers direction.

### Sudo-Koo, Visualizer & Game, ([link](#))

Dec 2020

- Formulated and deployed several **computer vision** scripts to retrieve 81 cell's digits & locations from a physical image.
- Surpassed **90% precision** in extraction using **OpenCV**. Attained **virtual-Reality** solution on a **real-time picture**.
- Displayed using **Tkinter**-based interactive **virtual playing GUI** with 5 mouse clickable buttons for different operations.

### Digital Attendance System, ([link](#))

May 2020

- Built fully automated **multi-facial recognition system** with **85% effectiveness** in **picture processing and identification**.
- Fabricated over Deep Learning concept. Compiled with a **record-monitoring system** & **2 databases** for learning data.
- Pioneered an easy-to-use **GUI** using **Tkinter**, integrated with 4 additional button-accessed features.

### Driver Drowsiness Detection, ([link](#))

Apr 2020

- Created an application that detects tiredness in drivers using **machine learning technology** with **95% effectiveness**.
- Conceptualized 3 layered **CNN supervised learning** model, achieved using **Tensorflow**, **Keras**, and **Haar Cascade**.

## TECHNICAL SKILLS

- Core Programming Languages: **C++** | **C-Programming** | **Python** | **HTML** | **CSS** | **MySQL**
- CS Subjects: **Data Structures & Algorithms** | **Operating Systems** | **OOPs** | **DBMS**
- Other Techs: **Computer vision** | **Augmented reality** | **Voice assistance** | **Numpy** | **Deep learning** | **Machine learning**

## ACHIEVEMENTS AND AWARDS

- Awarded with **Certificate of Merit** by CBSE for getting grade A1 in all 5 subjects, 2016
- Selected for **2nd National Conference on Cybercrime & Digital Forensics - CBI**
- Completed the **30-Day G-Cloud** Certification Course offered by **Google**.
- Qualified among the **top 12 teams** in **Vihaan 4.0 Hackathon** by **IEEE, DTU**.

## POSITION OF RESPONSIBILITY

### Head, Machine Learning, IOSD DTU

Jul 2021 – Aug 2022

- Governed **10+ interactive and guidance sessions** on machine learning and deep learning for juniors.
- **Interviewed over 70** students for the final machine learning project team of IOSD for the 2021-2022 session.