

# Aman Yadav (2K19/IT/014)

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## EDUCATION

### DELHI TECHNOLOGICAL UNIVERSITY

- **B.TECH IN INFORMATION TECHNOLOGY**

- May 2023 | NEW DELHI, IN
- GPA: 8.81 / 10.00

### KENDRIYA VIDYALAYA AFS, TKD

- **CBSE (CLASS-XII)**

- May 2018 | NEW DELHI, IN
- PERCENTAGE: 91.80 / 100.00

- **CBSE (CLASS-X)**

- May 2016 | NEW DELHI, IN
- GPA: 10.00 / 10.00

## EXPERIENCE

### ENTREPE | 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-Toys) | MACHINE LEARNING DEVELOPER

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.

## SKILLS

### PROGRAMMING LANGUAGES

C++ • C Programming • Python • HTML • CSS • MySQL

### TECHNICAL SKILLS

Computer vision • Augmented reality • Deep learning  
Machine learning • Voice assistance

### CS SUBJECTS

Data Structures & Algorithms • Operating Systems  
OOPs • DBMS • Computer Networks

### LANGUAGE

*Fluent:* English • Hindi

*Elementary:* German

## PROJECTS

### CLASS-VR, AR Learning Platform

[\(link\)](#)

Marker Based AR | A-frame | AR.js | HTML | CSS, 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

[\(link\)](#)

OpenCV | Numpy | Tkinter | Pytesseract, Dec 2020

- Formulated and deployed several **computer vision** scripts to retrieve 81 cell 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

[\(link\)](#)

Deep Learning | Tkinter | Face\_recognition | Python, 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 DETECTOR

[\(link\)](#)

Supervised Learning | Keras | Tensorflow | Haar Cascade, 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**.

## AWARDS AND ACHIEVEMENTS

- 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

### IOSD - DTU

#### HEAD, MACHINE LEARNING

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.