# Vineet Alok

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## EDUCATION

**The Northcap University**                                                                    2020 – present
*BTech in Computer Science, AI/ML Specialization*                                    Gurugram, India
Cumulative GPA till now: 8.19/10

## PROFESSIONAL EXPERIENCE

**1) National Brain Research Centre(NBRC) - Internship**                          Apr 2023 – Jul 2023
*India's first Medical Brain Imaging based database(SWADESH) development.* ↗    Gurugram, India
- Engineered front-end and back-end components, encompassing certain server operations and management.
- Front End (HTML, CSS, and JavaScript) Back End(Django, SQL, Python)
- OS - Linux (Ubuntu).

**2) Tata Prashikshan – Internship**                                                  May 2022 – Jul 2022
*TATA STEEL  Jamshedpur -Jharkhand* ↗                                             Jamshedpur, India
Project title: A cross-platform App to scan and generate optical characters(Barcodes, QR codes)
- Worked on a cross-platform framework Flutter and its various libraries for developing the scanning and generating optical character feature of the App.
- Integrated for both ios and android, its authentications, permissions, Front-end, and version problems. Separate login UI for Admin and employees.

## PROJECTS

**1) AI-Fall Guard** ↗
*Real-Time Fall Detection and Response using AI/ML*
- Implemented real-time data processing of Accelerometer and Gyroscope sensor readings to accurately detect falls and distinguish them from other movements.(Flutter Package used - sensors_plus: ^3.1.0)
- Utilized machine learning and AI algorithms to analyze sensor data, enhancing the accuracy of fall detection and reducing false positives.
- Integrated notification and alert systems to promptly inform users and their emergency contacts in case of a fall event.

**2) Rio** ↗
*An AI voice assistant*
- Developed a prototype of an Alexa-like AI voice assist device using python, machine learning, and Raspberry Pi.
- Integrated it with the wake-up word 'Hey Rio' and an accuracy of 95%.

**3) Volunteer Service Manager** ↗
*Python Gui based project which enabled tracking community service hours by the folks.*
- I developed the front end of the application (login page, separate UI for faculty and students). Used firebase for login of faculty and students individually.

## SKILLS

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|---|---|
| Coding languages : Python , Java , Dart | AI/ML Algorithms and Models, SDLC models |
| Development framework: Flutter , HTML , CSS, JS, Django, SQL | Libraries: Pandas , Numpy , NLTK, Matplotlib, Seaborn, Scipy and Flutter packages, OpenCV. |

## AWARDS AND RECOGNITIONS

**Google Hash Code** ↗                                                                       Feb 24, 2022
*Gold badge - 1659324 pts*

**INEA-SERB Youth Conclave -2022 IIT Jodhpur** ↗                                Oct 19, 2022
*My team and I was selected for the final round of the Hackathon  which was held at IIT jodhpur.*

## PUBLICATIONS

**Patent Publication**
*Inventor of AI-Fall Guard(Real-Time Fall Detection and Response with AI/ML)-in process*

**Research Paper Publication**
*Monkeypox detection using Ensemble learning-in process*

## CERTIFICATIONS

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|---|---|---|
| **AWS Academy Machine Learning Foundations** | **Python full-stack developer Masterclass** | **Java Programming** |
| *Amazon web services* | *Udemy* | *Great learning academy* |