CHAITANAYAKUSUMAKAR
Course : **Dual Degree/Integrated - MBA (Tech.)**, MBA in Technology Management, 2026
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NMIMS INDORE

ACADEMIC DETAILS

COURSE	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	Choithram South Campus School	CBSE	65.8 %	2020
CLASS X	Choithram South Campus School	CBSE	71.6 %	2018

Subjects / Electives	Artificial Intelligence, Python Programming, Web Programming, Design and Analysis of Algorithms, Theoretical Computer Science, Programming For Problem Solving, Mobile Application Development, Operating System, Object Oriented Programming Using Java, Digital Logic and Design, Distributed Computing, Cyber Security
Technical Proficiency	Raspberry Pi, HTML, CSS, C++ Language, OpenCV, Java, NodeMCU, Python, MySQL, Android Development, Arduino UNO, Firebase, JavaScript, Pygame, Github, Web Development, Socket Programming, Computer Vision

PROJECTS

The Movie Guessing Game (Deployed) – Web Development, Github **Apr 2024 - Apr 2024**

Online creation of the game we loved and played in our school day, BOLLYWOOD, but with also added features of HOLLYWOOD, and hints. The project was created using HTML, CSS, JavaScript. On this date, the project is functioning but under development and I am open to suggestions. Project is deployed through GitHub Pages. Following is the link to the game.

https://chaitanayak.github.io/TheMovieGuessingGame.github.io/

Secure Home – App Development, Firebase, Python, Biometrics **Mar 2024 - Apr 2024**

An application that can works with other devices like laptops, PCs, automated door locks, etc to lock them with one click of a button and unlock any registered device of the user using Fingerprint Biometrics. The laptop compatible app is an executable file(.exe) which completely blocks all input from keyboard and mouse until the device is unlocked using biometrics on the mobile app.

LogMeIn (AnyDesk alternative) – Python, Socket Programming **Feb 2024 - Mar 2024**

An alternative of AnyDesk created using Server-Client based program using socket in python. Client system can completely control the Host system with mouse tracking as well as keyboard tracking. Interface created using CustomTkinter.

6 DOF Robotic Arm – Python, OpenCV, RaspberryPi **Dec 2023 - Feb 2024**

Used raspberry pi, servo motors, and 3-D printing to create a robotic arm that uses object detection to pick small sized objects on command. The arm is capable to detect hands and using Mediapipe to track them which makes the arm more responsive to its surrounding.

Car Control Using Hand Gestures – Python, Google Mediapipe, NodeMCU, Socket Programming **Dec 2023 - Jan 2024**

Created a python program which detects Hand gesture using Mediapipe, and computer vision and using those hand gestures I control a 4 wheeled car built with the microcontroller NodeMCU(ESP8266). The communication between the devices is happening using Socket Programming.

Dream Music – Android Development, Firebase **Jul 2023 - Nov 2023**

Developed a music player application like Spotify which is completely free to use, and customizations are available so users can add more songs to the database. App was built using android java. Song sharing feature and group play i.e playing a single song on multiple phones with synchronicity that are premium features in Spotify are free features in Dream Music.

Quadcopter(Drone) - Robotics **Apr 2023 - May 2023**

Created drone by programming Arduino UNO, and learn PID control and drone technologies. Used various electrical sensors/modules like, NRF modules to transmit and receive data, MPU6050 as Inertial Measurement Unit, ESC's to convert DC supply from Lipo battery to AC supply for the 4 BLDC motors.

Line Following Bot - Robotics **Feb 2023 - Apr 2023**

Program and built a bot using Arduino UNO, IR sensors, ultra-sonic sensor, and L289 Motor Driver, that tracks and follows a black line. It does so by transmitting infra-red rays which are received by the receiver in the IR sensor, this happens when there is a surface close to the sensor but as black color absorbs the IR rays, the bot receives a digital low value resulting in the detection of line.

Student Result Management System (Not Deployed) - Web Development **Dec 2022 - Apr 2023**

Developed user-friendly portal (website) with advanced features including quick effects, teacher -student database, intuitive navigation, and fast loading times . Additional features such as color correction, giving student report through graph etc. Implemented custom graphics, animations , and interactive features to enhance user experience .

Flappy Bird Using Computer Vision - Game, Computer Vision **Sep 2022 - Oct 2022**

Created the classic Flappy Bird game from scratch using Pygame and playing the game by blinking my eyes to jump using computer vision and opencv library and haarcascade files.

WhatsApp/Email Spammer - Automation **May 2022 - May 2022**

Created a Whatsapp/email spammer using Python, specifically using Selenium and PyAutogui, keyboard library. Basic applications involve automation by outsourcing a repetitive job of sending similar messages to larger number of people.

CERTIFICATIONS

CERTIFICATION	CERTIFYING AUTHORITY
Flutter Development	Google Cloud
Artificial Intelligence Foundation Certification	Infosys Springboard
Google Cloud Computing Foundations	Google Cloud

COMPETITIONS

KAVACH-2023 **Aug, 2023**

Competed against teams all over India in a Cyber Security Hackathon using Machine Learning algorithms, Mathematical models, database management, and Web Development in creating an application to detect crime using Computer Vision.

IARC Line Follower Competition **Mar, 2023**

Competed in IARC Techkriti Competition by creating a Line Following Bot that can take intelligent decisions and solve 2*2 matrix to get speed for the line follower using Arduino UNO.

CONFERENCES AND WORKSHOPS

Machine Learning Workshop

Organized by: **Techkriti** | Date: **Mar 2023**

Robotics Workshop

Organized by: **Techkriti** | Date: **Mar 2023**

POSITION OF RESPONSIBILITY

Founder and Lead of Robotics Subcomitee- Turing Club, NMIMS Indore **Jan 2024 - Present**

I am tasked with spearheading the development and implementation of innovative robotics projects, fostering collaboration among team members, and driving progress towards our collective goals in advancing robotics technology. My role involves strategic planning, resource allocation, and ensuring the success and growth of our robotics initiatives within the organization.