

UTSAV CHAUDHARY

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science
Master of Science in Computer Science Expected May 2024
Universal College of Engineering, Mumbai, India
Bachelor of Science in Computer Engineering Jul 2017 – Jun 2021
Cumulative GPA: 8.09/10

TECHNICAL SKILLS

Programming: Python, Java, C#, C++, JavaScript, PHP, Automation, HMI, PLC,
Web & Database: NodeJs, jQuery, Django, Flask, XML, REST API, MySQL, PostgreSQL, Firebase, MongoDB
Additional: Unity3D, Android Studio, Firebase, AWS, Numpy, Pandas, Arduino, IoT, TensorFlow, Linux, macOS, AutoCAD
Specialization (Coursera): Python-Michigan, IT Automation -Google, TensorFlow -DeepLearning.AI, Data Structure, Data Science, Machine Learning & AI

PROFESSIONAL EXPERIENCE

VRoKCs, Kansas City, United States | Machine Learning Intern Sept 2021 – Dec 2021

- Developed a project based on translating and augmenting Sign Language using ML and Augmented Reality.
- Utilized MobileNet V2 as a transfer learning model and fine-tuned it to meet the specific needs of the project.
- Designed a TensorFlow Lite model based on algorithms that demonstrated promising results, achieving 28mAP.
- Collaborated with developers to integrate the model with augmented reality, creating a seamless user experience.

Compendious Medialabs Pvt. Ltd, India | Software Engineering Intern Jan 2021 – Apr 2021

- Developed, designed, and coded a Python bot to aggregate data from over 200 news websites.
- Implemented logic to retrieve articles from RSS feeds, scraped and sanitized them to align with the database design.
- Managed and structured data, uploaded it to a MySQL server, and connected it to the frontend.

underDOGS Gaming Studio, India | Game Developer Intern Jun 2019 – Jul 2019

- Integrated a universal gaming currency called "Quarters" into various games for the client utilizing the Quarters API.
- Incorporated the API into a universal platform game and utilized secure methods for coin transactions.
- Improved existing code to reduce bugs, resulting in a smoother-running product, using C# and Unity3D.

ACADEMIC PROJECTS AND PAPERS

EDU-AR | Unity 3D, Android Studio, AR Core, Tensorflow, Pandas, NumPy, Matplotlib, Keras

- Developed an android application aimed at assisting preschoolers with challenges, hearing, and speech impairments
- Implemented Augmented Reality technology in conjunction with deep learning models such as CNN with a 95% accuracy rate, Image Processing utilizing TensorFlow & Keras, and integrated Google Vision API for Handwriting Analysis, as well as Sign Language assistance.
- Received recognition for the Innovative Idea award in 2020 and published a paper in the IOSRJEN in May 2021.

Driver Drowsiness detection / Python, OpenCV, Keras, Arduino UNO, Raspberry Pi

- Developed a Drowsiness Detector to address sleep-related accidents on the road.
- Implemented Haar-cascade, OpenCV & Keras to detect drowsiness by analyzing the driver's eye state.
- Integrated Arduino with GSM and GPS modules to send an SOS signal to emergency contacts.

AssignmentX | Python, NumPy, Pillow, Flask, Android Studio

- Developed an android application that generated assignments with a handwritten appearance, resulting in over 5000+ downloads on Play Store and 200+ daily active users. The accompanying YouTube channel received over 32K+ views.
- Utilized the Pillow library in Python to process images of alphabets and incorporated a human behavioral algorithm to mimic natural handwriting.
- Created an Android app and established a Web API using Flask for seamless communication with the main code

LEADERSHIP ROLES AND AWARDS

- Honored as Technical Head of the International Society of Automation (ISA) and Computer Engineering Students Association (CESA) in 2021. Where I organized and managed various Inter and Intra College Events.
- Collaborated with ISA and CESA for conducting workshops on trending topics such as Python, Machine Learning, and AR/VR to over 500 members in 2019 at Universal College of Engineering Mumbai.
- Handling a YouTube channel named 'ThatInsaneGuy' for sharing projects and tutoring students about recent technologies, since 2019.
- Led a team during Hackathons and secured 3rd place at IIT-BHU and was selected as Top-5 Teams at DA-IICT in 2019
- Obtained a certificate of merit from Innovation Cell IIT Bombay and RoboKart for securing 5th position in developing Games in 2018.