**NITESH KUMAR**

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# EXPERIENCE

**Software Engineer Intern**

Samsung Research R&D Institute India-Bangalore

* Designed and Developed and Android and Web application by which User can plan and create the home planning.
* Collaborated with a team and designed User Experience and basic functionalities using WebGL and ThreeJs.
* Built the 3D environment with WebGL, ThreeJs and Javescript is used for backend functionalties.
* Imported 3D models using OBJLoader and applied texture using the MTLLoader from ThreeJs Library.
* Saving and loading 3D scene data. Feature generates a downloadable JSON file containing scene facilitates the parsing and dynamic recreation of scenes.

# PROJECTS

**Gesture Synchronization** | *OpenCV, NumPy, Pyhton, MediaPipe*

* Created functions for hand tracking using Google MediaPipe library.
* Implemented mouse control functions using different finger points combinations with Matplotlib Library.
* Developed features for volume and brightness control.
* Designed Voice Assistant using SVM machine learning algorithm. Enabled user queries and control over Youtube and Chrome Browser functions.
* A virtual voice assistant for queries and basic interection.

**Health AI | IT Rajasthan Hackathon** | *BeautifulSoup4 API, Twilio API, Google Speech, Python*

* Built an AI Health Assistant to address medical queries, medication, and emergency options.
* Sent nearby hospital, blood bank, doctor lists to users via SMS.
* Implemented emergency call, message, and medicine reminder functions using Twilio API.
* Utilized webscraping for various purposes using BeautifulSoup.
* Compare prices and provide list for similar composition medicines.

# ACHIEVEMENTS

* Acknowledged for exceptional contributions and performance at Samsung R&D Bangalore.
* Top-five ranking in IT Rajasthan Hackathon, showcasing proficiency and problem-solving skills.
* Accomplished the publication of a research paper in (IJSREM), reflecting research pursuits.

# SKILLS

* Languages: Java, Python, JavaScript, C++
* Frameworks: ThreeJs, NodeJs, OpenCV, Flask, Mediapipe, PostgreSQL
* Developer Tools: Git/GitHub, VS Code, Android Studio, PyCharm, Shell, POSTMAN

# EDUCATION

**Chandigarh University** Mohali, Punjab

Bachelor of Engineering in Computer Science **–** CGPA – 7.18Aug, 2021 – July, 2025