

RADHIKA SAINI

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ABOUT ME

I am a passionate third year student currently pursuing Bachelor of Technology in Computer Science Engineering in Graphic Era University, Dehradun . My core interests lay in the intersection of the computer engineering, animation and machine learning. I am auto-didactic in 3D Graphics and computer vision. I am currently seeking interesting opportunities in these areas and eager to learn new concepts and develop relevant skills for my professional growth.

ACADEMIC DETAILS

Year	Degree/Exam	Institute	CGPA/Marks (%)
Aug, 2020 - Present	B.Tech (Computer Science)	Graphic Era University, Dehradun	8.78 %
2020	12 th , C.B.S.E	B.V.M. Sr. Sec. School, Ludhiana	86.4 %
2018	10 th , C.B.S.E	B.V.M. Sr. Sec. School, Ludhiana	85.83 %

COURSE PROJECTS

- **Group Facial Emotion Recognition using Deep Learning** : Developed an convolutional neural network for recognizing emotions. Network was trained and tested using FER 2013 Facial Expression Dataset.Face detection with Haarcascade classifier. Tested on opencv.
- **Medical Image Denoising using Deep Learning** : Developed an artificial neural network (Autoencoder). Used chest X-RAY images Dataset from Kaggle platform for training , testing and validation purposes.
- **Cartoonifying an image using Machine learning and Deep Learning** : For machine learning K-mean clustering algorithm is used. Divided in three steps - edge detection , color quantisation and combination of masked image and quantised images.For Deep Learning used trained white box model for improved results.
- **Converting 2D images to 3D using NeRF Architecture** : (on going)

OTHER PROJECTS

Computer Graphics

- - **Modeling**: 3D Modeling, 3D Sculpting, UV Editing, Texture Painting, geometry Nodes, Mapping, Environment Modeling, Character Rigging, Modifiers,
- **Animation**: Animation , Keyframes, Simulations, Camera Projections, Scripting (on going), Rendering.

TECHNICAL SKILLS

- **Languages**
 - Core : Python, Java, C, C++
 - Web : HTML, CSS, Javascript, JQuery
 - Database : SQL
 - Others : Markdown, \LaTeX
- **Frameworks and Tools:**
 - Scientific : MATLAB
 - 3D Animation : Blender, MeshLab
 - 2D Image Editing : GIMP, Blender
 - IDEs : VScode, Oracle, Eclipse, pycharm, jupyter notebook
- **Machine Learning:** Pytorch, Tensorflow, Keras, Node JS.

OTHER ACHIEVEMENTS AND POSITIONS OF RESPONSIBILITY

- *Participated in multiple inter-school and intra-school on the spot competitions in painting, calligraphy, slogan writing, poster making, graffiti art, cultural dancing etc.*
- *Second Prize in state level competition in Poster making.*
- *Prize for most inter-school competitions participation in the batch.*
- *Experience in several events organisation and management.*