

Rishabh Nanawati

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EDUCATION

Mukesh Patel School of Technology, Management & Engineering NMIMS University, Mumbai, IN

Bachelor of Technology (Honors)

Graduated Aug. 2021

- CGPA: 3.22/4.00
- Major: Computer Engineering
- Minor: Artificial Intelligence & Machine Learning
- ABET Accredited Program
- Courses: Research Methodology, Operations Research, C/C++ (Comp. Prog. I & II), Java (Prog. Lang. I), Python (Prog. Lang. II), Operating Systems, Data Structures, Design & Analysis of Algorithms, Statistics (Eng. Math. IV), Data Warehousing & Mining, Soft Computing, Artificial Intelligence
- Served as Student Representative of the entire class

EXPERIENCE

Co-Founder

Oct. 2020 - Present

Curabit (www.curabit.in)

Mumbai, IN

- Developed Virtual Cafe, a VR simulation to help users with their social anxiety, where they can interact with virtual characters.
- Developed a RESTful API and a web application using the FReMP stack, that controls the interactive playback of the immersive 360 video being viewed.
- Led the operations of headset procurement and system deployment, as well as managed all internal IT solutions such as Asana, Google Workspace, Wix, etc.
- Part of the team that is conducting research on the effects of various VR simulations on those suffering from anxiety disorders.

PUBLICATIONS

Sariya, A., Nanawati, R. (2022). Use Of Virtual Reality In Exposure Therapy And Other Psychological Treatment Methods *Multimedia Computing Systems and Virtual Reality* (Vol. 1). CRC Press. ([link](#),[pdf](#))

PROJECTS

Deep Compression using Autoencoder | *FastAI, Scikit-learn, PyTorch*

Apr. 2021

- Designed to compress data from 4 variables to 3 variables, and then to decompress it with minimal loss.
- Achieved MSE of only 0.00376 upon reconstruction.
- Part of evaluation task for CERN's Google Summer of Code program.

Generating natural captioning of images | *Matplotlib, Scipy, Keras & TensorFlow*

Dec. 2020

- Define and trained an image-to-caption model, that can produce descriptions for real world images.
- Model consisted of a pre-trained InceptionV3 CNN that extracted features from images and an RNN that employed LSTM to first train on a thousand pre-captioned images and then generate captions for any given image.
- Based on a [Google AI blog entry](#).

Sign Language Interpreter | *OpenCV, Scipy, tcl/tk, Keras & Tensorflow*

Apr. 2020

- A sign language interpreter that works on the image pre-processing techniques, KANE feature extraction and cosine distance matching.
- Aimed to connect with a Raspberry Pi, which could be worn as a necklace and used to translate American Sign Language gestures into displayable text.
- The model used a CNN and was able to predict the 44 characters in the ASL with a prediction accuracy >95%.

CERTIFICATIONS

Machine Learning Specialization (4 courses) <i>University of Washington</i>	Apr. 2020 <i>Coursera</i>
Neural Networks and Deep Learning <i>DeepLearning.AI</i>	Apr. 2021 <i>Coursera</i>
Sequence Models for Time Series and Natural Language Processing <i>Google Cloud</i>	May 2021 <i>Coursera</i>
Applied AI with DeepLearning <i>IBM</i>	May 2021 <i>Coursera</i>

TECHNICAL SKILLS

Languages: C, C++, Java, Javascript, ReactJS, Python
Frameworks: Django, Flask, ReactJS
Developer Tools: Postman, VS Code, Docker
Libraries: Tensorflow, Scipy, Turicreate/GraphLab, PyTorch

COMMUNITY & LEADERSHIP

Charge D' Affaires <i>MUN Society MPSTME</i>	Jul. 2020 - Jun. 2021 <i>NMIMS University</i>
<ul style="list-style-type: none">• Lead a team of 140+ volunteers through the pandemic to conduct various workshops and events.• Identified problems and requirements of the society, strategized solutions and drove various core departments into taking action.• Subsequently served as the Vice President of Mumbai Yuva Sansad, India's largest online Youth Parliament, which was attended by over 400 delegates.	
Head of Department, Digital Creatives <i>MUN Society MPSTME</i>	Jul. 2019 - Jun. 2020 <i>NMIMS University</i>
<ul style="list-style-type: none">• Headed a department of 12 volunteers to serve the digital graphic requirements of the society, including social media posts, flexes, banners, ID cards, etc.• Subsequently served as the USG Design & Media for Mumbai MUN, India's biggest MUN conference.	
Executive, Digital Creatives <i>MUN Society MPSTME</i>	Jan. 2018 - Jun. 2019 <i>NMIMS University</i>
<ul style="list-style-type: none">• Created several designs to serve the graphic requirements such as social media posts, flexes and banners for the society.	

AWARDS & ACCOLADES

Change Maker Award <i>American Society of Mechanical Engineers (ASME)</i>	Dec. 2021
Student Ambassador Award <i>NMIMS University</i>	Aug. 2021
2nd Prize in RunTime Error Coding Competition <i>The White Hat Cell MPSTME</i>	Jul. 2021
Top 50 Ideas for Healthcare Innovation <i>ZS Associates</i>	Jan. 2021
Resolution Fellowship <i>The Resolution Project (NY, USA)</i>	Jun. 2020
Team Leader, Top Marketer <i>Google's Online Marketing Challenge</i>	Jun. 2019