

RITESH JAIN

+1(857) 340-1998 ◇ Rochester, NY ◇ riteshjain462@gmail.com ◇ <https://www.linkedin.com/in/riteshjain11/>

EDUCATION

Master of Science in Computer Science, Rochester Institute of Technology Expected Dec 2022

Coursework: Foundation of AI, Natural Language Processing, Computer Vision, Foundation of Algorithms

BE in Information and Communication Technology, Gujarat Technological University Aug 2014-May 2018

SKILLS

Technical Skills Python, MATLAB, JAVA, R, C++, MySQL, MongoDB, Probability, Linear Algebra

Tools And Technology GIT, PostMan, Flask, AWS, Azure, Docker, Tableau

ML Frameworks Tensorflow, Keras, Pytorch, Scikit-Learn, Numpy, Pandas, PySpark, Spacy

EXPERIENCE

Weber Shandwick

Data Science Intern

Jan 2022 - Present

- Developed custom predictive models and machine learning algorithms tailored to client's business problem and coordinate with different teams to implement models and monitor outcomes.
- Designed, analyzed, and interpreted insights end-to-end on a project from data processing to data modeling, and impactful business recommendations.

Kodak Alaris, Rochester Institute of Technology

Computer Vision Research Assistant

May 2021 - Present

- Built a shadow detection model to detect shadows in passport images using face segmentation and illumination of the image as the feature, and achieved an accuracy of 96% on the testing images and in production.
- Designed GAN network to generate the dataset of shadow images to train the shadow detection network to increase the accuracy and to reduce the selection bias of the model.
- Developed functionality that detect occlusions in the background of passport images using histogram equalization and face segmentation with an accuracy of 95%.

Azine Technologies

Machine Learning Engineer

Jun 2020 - Dec 2020

- Implemented Face Liveness Detection by designing a Fully Connected Network using depth map of images as the label and got an accuracy of 93%.
- Generated 3d structure of the face using Face3d model and then implemented Z-buffer method on the 3d image to create the depth map of the face images.
- Spearheaded team of 4 people to generate the dataset for training and testing and deploying the model on cloud and restructuring database queries using MongoDB.

Intellica.AI

Machine Learning Engineer

Mar 2019 - Apr 2020

- Developed NLP platform which contains function such as Text Classification, Clustering, Emotion Analysis and Topic Modelling using BERT language model to extract the bidirectional embeddings from the text data.
- Built clothes classification system to classify the different attributes and design of the clothes selected using YOLO object detection algorithm and got an accuracy of 97%.

PROJECTS

Toxicity Classification

July 2021

- Used ROBERTA to extract the embeddings from Twitter data and designed Artificial Neural Network to train the embeddings in order to determine level of toxicity in tweets with an accuracy of 92%.

Path Finder

May 2021

- Performed A* search algorithm to find the shortest path between 2 coordinates on a 3D map and used BFS to detect water edges which simulate through different weather conditions.

Set Card Detection

Nov 2021

- Used image morphology to remove noise from the image and template matching using correlation method to detect the shape, number and type of card in the image.

LEADERSHIP

- Guided a Data Science team of 4 people from developing the Deep Learning model to deploying it on AWS.
- Mentored and trained interns to perform various data analysis task on current project and guide them through the project development process.