



Rochan Sharma

LinkedIn: Rochan Sharma

sharmarochan@gmail.com | +91-816 817 3851

SKILLS

PROGRAMMING

Python
SQL
Java script

DEEP LEARNING | MACHINE LEARNING

Convolution Neural Networks
Medical Imaging
Artificial Neural Networks
Regression
Support Vector Machines
Naive Bayes
K-Nearest Neighbors
Decision Trees
Cluster Analyses
Natural Language Processing

SOFTWARE | LIBRARIES

Keras
Tensorflow
Git and Github
MongoDB
PostgreSQL and PostGIS
Amazon Web Services
kafka

EDUCATION

PH.D. IN INFORMATION TECHNOLOGY

NARSEE MONJEE INSTITUTE OF
MANAGEMENT STUDIES (NMIMS)
August 2020 | Mumbai Campus
Maharashtra

M.TECH. BY RESEARCH IN ARTIFICIAL INTELLIGENCE

UNIVERSITY OF PETROLEUM AND
ENERGY STUDIES
July 2019 | Dehradun, Uttarakhand

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

KURUKSHETRA UNIVERSITY
June 2016 | Kurukshetra, Haryana
Graduated with Honors

INTRODUCTION

2+ years of experience with a passion to solve real world business problems. Proficient in deploying complex machine learning and statistical modeling algorithms/techniques for identifying pattern and extracting valuable business insights.

EXPERIENCE

RELIANCE INDUSTRIES LIMITED | DATA SCIENTIST

Jan 2019 – Present | Mumbai, Maharashtra

AMEOTECH INFORMATICS | PYTHON DEVELOPER

Sep 2016 – May 2017 | Mohali, Punjab

PROJECTS

- **Incident Management Platform (IMP)**
 - AI Platform for reducing Process and Safety incidents to ensure the safety of the workers at the RCP manufacturing districts and Operational sites.
 - Reliance Manufacturing & Operations Risk Management
- **Covid-19: Video Analysis on Social Distancing and Mask Usage in Reliance**
 - Using Computer Vision to ensure the safety of the people at the RCP plant sites. Use of CCTV feeds to monitor social distancing and wearing face masks while at work, and detect violations which trigger real time voice alerts on the floor.
 - Jio Platforms Limited
- **Petro-Retail Video Analysis**
 - Edge-computing based live stream analytic using SSD MobileNet lite for monitoring and identification of sales loss at RIL Petro Retail forecourt.
 - Reliance Industries Limited
- **Corporate Security Video Analysis**
 - Gait analysis and action recognition using fuzzy logic and deep learning.
 - Reliance Industries Limited
- **Karyotyping**
 - Pairing and ordering of human chromosomes in a microscopic camera image to generate Karyotype reports.
 - Semantic Segmentation of chromosomes using E-net and U-net model.
 - Reliance Life Science
- **Single Cell**
 - Image analysis method to ensure that ranking of final clones obtained are actually single cell clones of the highest quality with documentation proof.
 - Reliance Life Science
- **Kidney Tumor Segmentation - KiTS**
 - The goal is to develop reliable kidney and kidney tumor semantic segmentation methodologies.
 - **World Rank 83** at Satellite Event organized by MICCAI 2019.
 - MICCAI 2019
- **BraTS (Brain Tumor Segmentation 2019)**
 - Segmentation of FLAIR part in pre-operative MRI scans to give segmented nifti format file.
 - MICCAI 2019

INTERNSHIPS

RELIANCE INDUSTRIES LIMITED | DATA SCIENCE INTERN

Jan 2019- June 2019 | Mumbai

WILDLIFE INSTITUTE OF INDIA - ISRO | DEPT OF AI RESEARCH

June 2018 - November 2018 |

Dehradun

WOBOT.AI | INTERN

April 2018 - May 2018 | Ahmedabad

LINKS

LinkedIn: **ROCHAN SHARMA**

HOBBIES

Attending Conferences | Volunteer
Activities | Watching Discovery
Channel | Meetups | Book Fair Visit |
Auto Expo Visit | Riding Cars | Movies
& Music

- **Allen and Unwin application development**
 - Experienced with full software development (Backend - frontend - database)
 - Built Web application using Python, Django, Flask, JavaScript, AJAX and HTML.
 - Worked with various Python Integrated Development Environments like Spyder, PyCharm.

- A&U 2018

PUBLICATIONS

- [1] An Automated Animal Classification System: A Transfer Learning Approach
- [2] Kidney and Tumor Segmentation using U-Net Deep Learning Model
- [3] Identification of Glioma from MR Images Using Convolutional Neural Network
- [4] Modeling of Main Burner in Sulphur Recovery Unit using Artificial Neural Networks
- [5] Classifying Type of Head and Neck Cancer using Deep Convolutional Neural Networks

ADDITIONAL ACTIVITIES

Member of Artificial Intelligence Club - A&SI Group, Reliance

Member of Productization Club - A&SI Group, Reliance

CERTIFICATIONS

- Neurohacking in R
- Neural Networks and Deep Learning
- Improving Deep Neural Networks: Hyper-parameter tuning, Regularization and Optimization
- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Artificial Intelligence Foundation: Machine Learning
- Advance Python
- Python Essential Training

All the information mentioned in the resume are correct to the best of my knowledge and believe.