

RAGEENI SAH

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EDUCATION

North Carolina State University
Master of Science in Electrical Engineering (Area - Machine Learning)
Related Coursework – *Neural Network, Computer Vision, Data Analytics, Statistics*

Raleigh, NC
Aug'21– May'23
GPA – 3.67

Ramaiah Institute of Technology, Visvesvaraya Technology University
Bachelor of Engineering in Electronics & Communication

Bangalore India
Aug'11 - Jun'15

TECHNICAL SKILLS

- *Programming Language*: Python, R, SQL, shell, C++
- *ML Libraries/Framework*: PyTorch, TensorFlow, Sklearn, Pandas, NumPy, Matplotlib, Seaborn, Tableau, ARIMA
- *ML Algorithms*: Logistic Regression, Linear Regression, Random Forest, SV Machine, KNN, KMeans, ANN, Convolutional Neural Networks (1D/2D/3D), LSTM, GAN
- *Others*: Exploratory Data Analysis, Hypothesis Testing, Probability distribution, Excel, LaTeX, Windows/Linux

PROJECT EXPERIENCE

SAR Image Classification using 3-dimensional Convolution Neural Network, PyTorch – NC State University

- Speedup SAR image classification using neural network against maximum likelihood approach.
- Improved base performance by implementing new architecture increasing group accuracy by 5%.
- Working towards identifying relevance of third dimension presence against two dimensional images.

Human Activities Recognition using Time Series data using Python, PyTorch, statistical modelling, CNN– NC State University

- Designed and modeled multiclass terrain type classifier using sequentially correlated data with 88% accuracy.
- Led the team of three guiding through data exploration, hypothesizing, experimental set up and implementation.
- Ranked among top 10 based on test prediction score in the batch size of 100 students.
- Enhanced state of art model performance by advanced modeling techniques increasing validation accuracy by 30%.

WORK EXPERIENCE

NORTH CAROLINA STATE UNIVERSITY

Research Assistant – Satellite Image Classification Project

Raleigh, NC
Aug'21-Present

- Setup end-to-end pipeline for Satellite Image Type Classification using PyTorch framework.
- Improved validation accuracy by 5% using fewer data and simplified model complexity.
- Working towards identifying impacts of third dimension in respect to two dimensional images.

SKORUZ TECHNOLOGY LIMITED

Data Scientist

Bangalore, India
Jun'20-Aug'21

- Enhanced power projection tool accuracy that forecasts real-time load demand for above 100 business units.
- Delivered advanced load pattern learning technique that captured 30% additional information using R & SQL.
- Expedited model training by parallelizing process pipeline reducing overall time by 50% using shell scripting.
- Served as a primary point of contact for data issues across teams and stakeholders.
- Automated report generation used for deployment validation a day of manual effort in result analysis.

SIGMOID ANALYTICS LIMITED

Data Scientist I

Bangalore, India
Feb'19-Jun'20

- Upgrade forecasting tool features usable across seven business units.
- Accelerated ML pipeline execution time by 75% applying shell scripting, python, and SQL.
- Upgraded model performance through feature engineering improving prediction accuracy by 20%.
- Led data sanity team that was responsible to identify and report data issues.

ORACLE INDIA LIMITED

Application Engineer

Bangalore, India
Apr'16-Nov'18

- Identified and resolved 1000+ technical issues the in fast-paced environment using C++.
- Contributed to development and maintenance of an ERP software serving 5000+ customer base.
- Tested and documented sales units' functionalities in central Wiki Page – the product bible.

LEADERSHIP SKILLS & ACCOMPLISHMENTS

- Publication on face recognition in ICCSP conference 2015; paper listed on [IEEEExplore](#).
- Social Media Coordinator of Nepali Student Association, Raleigh 2021.