ROHIT W. NALE

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CAREER OBJECTIVE

Innovative AI/CV/ML Engineer with strong mathematical skills and a thorough understanding of machine learning evaluation metrics and best practices. Offering almost two years of experience creating programs and algorithms to enable machines to take actions without being directed. Expertise in predictive analysis, data mining, and computational statistics.

PROJECTS

Title: Suspicious Human Activity Detection Using Pose Estimation and LSTM
Duration: 12 months
Description: Design and implement a Deep Learning model to classify suspicious activity for surveillance and health care. Geometric relational features are used to detect human Suspicious activities, the sequence of features is used to train the RNN/LSTM model. The model is implemented in python using TensorFlow and Keras, it efficiently learns the key point features and returns an activity class. This approach is based on the sequential information from 3D features, Geometric Pose Descriptor is a pose distance metrics which sufficiently reflect the pose similarity of human actions in different activities. The proposed method shows overall accuracy of 89.07% on cross view and 81.71% on cross subject evaluation on NTU-60 activity data set.

Title: Microstrip Patch Antenna designed for 2.4GHz
Duration: 1 months
Description: Microstrip Patch antenna consists of a flat conductive sheet i.e., patch of a particular shape like a rectangle, triangle, circular, etc., mounted over a larger sheet of metal called a ground plane. A patch antenna (pin feed) is designed to operate close to 2.4GHz using CAD Feko software in this antenna design.

Title: Design and simulation of low power ALU using hybrid full adder circuit
Duration: 6 months
Description: I design the circuit and its layout in the Cadence Virtuoso tool in 180nm technology. Here, in this ALU, a hybrid full adder design employing both complementary metal-oxide semiconductor (CMOS) logic and transmission gate logic (TGA) is used.

PUBLICATION

R. Nale, M. Sawarbandhe, N. Chegogoju and V. Satpute, "**Suspicious Human Activity Detection Using Pose Estimation and LSTM**," 2021 International Symposium of Asian Control Association on Intelligent Robotics and Industrial Automation (IRIA), 2021, pp. 197-202, doi: 10.1109/IRIA53009.2021.9588719.

INTERNSHIP

Company: FEYNN LABS
Name of Course: Machine Learning Intern (April 2022 – May 2022)
1. AI Product/Service Prototyping
2. Market segmentation using machine learning and data analysis
3. AI Product/Service Business and Financial Modeling

Company: BHARAT SANCHAR NIGAM LIMITED
Name of Course: Internship in Telecommunication (May 2017 – June 2017)
I completed my summer training at BSNL, where I have learned the basic concepts of Telecommunications. Different components of BSC and MSC. As part of this training, I want to learn about the various technologies used in today's telecommunications devices.

CERTIFICATES

Applied Data Science with Python

The University of Michigan, Coursera 'Specialization,' 2021
Five-course specializations covering statistical, machine learning, information visualization, text analysis, etc.

Deep Learning

deeplearning.ai, Coursera 'Specialization,' 2020
Five-course specialization covering Convolutional Neural Networks, hyper-parameter tuning, etc.

Python 3 Programming

The University of Michigan, Coursera 'Specialization,' 2020
This specialization teaches the fundamentals of programming in Python 3.

TECHNICAL KNOWLEDGE

Operating System: Windows, Linux
Languages: Matlab, Python, C, and C++
Tools: TensorFlow, Keras, Pytorch, MySQL, Tableau
Special Interest: Computer Vision, Machine Learning and Data Science

EDUCATION

Master of Technology (Communication System Engineering) from VNIT Nagpur, 2020 with 6.17/10 (CGPA).
Bachelor of Technology in Electronics & Telecommunication Engineering from SGGSIE&T (MH), 2018 with 6.45/10 (CGPA).
HSC from JAI HIND JR. COLLEGE OF SCIENCE, CHANDRAPUR (MHBSHSE PUNE) with 78.31%.
SSC from KENDRIYA VIDHYALAYA O. F. CHANDA, CHANDRAPUR (CBSE) with 72.24%.

PROFESSIONAL STRENGTHS

- Teamwork, a competitive nature, and the ability to adapt to various circumstances.
- Good problem-solving skills, quick understanding, and learning abilities.
- Effective communication skills and hard-working nature.

DECLARATION

I, **Rohit Nale**, do hereby declare that the information given above in my Resume is true and correct to the best of my knowledge. I also realise that making a false declaration or withholding information knowingly is considered misconduct and may result in disciplinary action.

DATE: 28/10/2022 **NAME:** ROHIT NALE

PLACE: NAGPUR