Prakhar Saxena

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EXPERIENCE

KEC International Ltd., Bhind(M.P.) — *Field Engineer*

July 2019 - April 2021

Involved in construction of 220/132 KV Transmission Line and Substation for PGCIL.I was responsible for management of site activities, safety of workers and quality of work. Received various awards for maintaining safety and ensuring good quality of work.

Electrical Engineering Society, Surat — *Administrative and Publicity Head*

July 2017 - April 2018

Helped in getting sponsorship for our society, organized and helped in developing interest towards various technical and informal events of the society in students.

Sparsh Techno-Cultural Fest, Surat — *Managerial Event Organizer*

February 2017 - February 2017

Sparsh one of the largest techno-cultural fest organized in West India,I along with my team successfully organized various events in the fest.

EDUCATION

NITK Surathkal, Surathkal — *M.Tech.*

In progress

Currently pursuing Signal Processing and Machine Learning from NITK Surathkal.

NIT Surat, Surat — *B.Tech.*

August 2015 - June 2019

Completed my bachelors in Electrical Engineering with a CGPA of 7.80.

SKILLS

Python,C

MySQL

Machine Learning,Deep Learning,Computer Vision

Management,Teamwork

AWARDS

Secured gold medal at State level in Indian National Children Science Congress.

Secured AIR 37 in National Defence Academy (NDA).

Won various awards for quizzes held in our college.

LANGUAGES

English

Hindi

PROJECTS

Compression of Hyperspectral image using DWT and TD

1. In this, an efficient method for hyperspectral image compression is prepared.

2. The core idea behind this technique is to apply TD on the DWT coefficients of spectral bands of HSIs. Use of DWT to effectively separate HSIs into different sub images and TD to efficiently compact the energy of sub-images.

3. Evaluated the effect of the proposed method on real HSIs and also compare the results with the well-known compression methods.

Classification of Hyperspectral image using CNN

1.Spectral observations along the spectrum in many narrow spectral bands through hyperspectral imaging provides valuable information towards material and object recognition, which can be consider as a classification task.

2.Our method exploits a Convolutional Neural Network to encode pixels' spectral and spatial information and a Multi-Layer Perceptron to conduct the classification task. Experimental results and quantitative validation on widely used datasets showcasing the potential of the developed approach for accurate hyperspectral data classification.

3.Proposed a deep learning based classification method that hierarchically constructs high-level features in an automated way