AMBUJ KUMAR

A quick learner and highly motivated team player , seeking to fill the position of a software engineer in a fast paced organization, where I can utilize my experience in Machine Learning, Computer Vision,Competitive Programming, Data Analytics and Electrical Engineering

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EDUCATION

B.Tech (Electrical & Electronics Engg.)
National Institute of Technology (NIT)-Delhi
08/2017 - Prese08nt *GPA : 8.55*

K K SVM Inter College Sultanpur
UP Board
Examination

- Intermediate (2016) - 92.20%
- Matriculation (2014) - 90.67%

PERSONAL PROJECTS

Ship and Aircraft Detection in Satellite Images
(05/2020 - 08/2020)

- Prepocessed Satellite Imaginary Data and Implement Deep Learning Object Detection Algorithms (like YOLOv3, Faster-RCNN etc)
- Technologies : Satellite Image Processing, Labeling, YOLO, Faster-RCNN, Python, OpenCV, Darknet, Roboflow.

Electricity Theft Detection using Deep Learning
(06/2020 - 08/2020)

- Implemented various Machine Learning models as well as Ensemble two Deep Learning Convolution Networks to Detect Electricity theft.
- Technologies : Ensemble of Convolutional Neural Network , Data Preprocessing, Python, Anomaly Detection

Forecasting of Total Number of Covid-19 Cases in India
(06/2020 - 06/2020)

- Preprocessed JHU CSSE Covid-19 Dataset and Implemented various Statistical Model for n-day ahead Forecasting
- Technologies: Python, Scikit-Learn and Time Series Forecasting

Fully Automatic Bio-floc Fish Farming Solution
(08/2019 - 08/2019)

- Built a real-time monitoring system for various parameters of water in the artificial tank using Arduino Uno.
- Built ML model to predict the exact amount of feed that needs to be distributed on a particular day depending on parameters.

Forecasting of Landslide and Healthcare Expenditures
(05/2019 - 07/2019)

- Evaluating single and multi-headed neural network architectures of popular networks like MLP, CNN, LSTM, CNN-LSTM, ConvLSTM and ensemble them
- Technologies : Deep Learning, Time-series Forecasting, Recurrent Neural Network

Gaze Controlled Virtual Keyboard using OpenCV and Python
(07/2019 - 12/2019)

- Implement a program which create a virtual Keyboard on computer screen and we can press the keys by blinking eyes.
- Technologies: OpenCV, Object detection and Python Programming

School Website and My Personal Website (Front-end)
(10/2018 - 01/2019)

- Designed complete Front-end of the website.
- Technologies: HTML, CSS, JavaScript, Bootstrap

SKILLS

C/C++ | Python | Time Series Forecasting | Databases | Machine Learning | Deep Learning | Tensorflow | Keras | Front-end Web Development | Deep Learning | Matlab Programming | Computer Vision | Simulink

PUBLICATIONS

Encoder Decoder based LDA Technique for the Condition Monitoring of Induction Motor using Stator Current Signal
Date of Publication IJSRD 7.11 (2020): 314-318

INTERNSHIPS

Indian Institute of Remote Sensing(IIRS), ISRO (2020)
Ship and Aircraft Detection in SAR and Optical Satelllite Images using Deep Learning Techniques

National Institute of Technology, Delhi (2020)
Electricity Theft Detection using Wide & Deep CNNs to secure Smart Grids

Applied Cognitive Science Lab-IIT Mandi (2019)
Implemented various Multiheaded Deep Learning Time Series Forecasting models

CERTIFICATES

Deep Learning Specialization (5 Courses)
Coursera (deeplearning.ai) course by Andrew Ng

Machine Learning
Coursera course by Andrew Ng

Deep Learning with PyTorch-Zero to GANs
Udemy course by Aakash N S

The Complete Front-End Web Development Course
Udemy course by Joseph Delgadillo and Nick Germaine

LANGUAGES

English & Hindi
Full Professional Proficiency

INTERESTS

Gardening | Animal care | Playing Cricket