



## CONTACT

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## SKILLS

Deep Learning  
★★★★★★★★★★☆☆  
Computer Vision  
★★★★★★★★★★☆☆  
Image Processing  
★★★★★★★★★★☆☆  
Machine Learning  
★★★★★★★★★★☆☆  
Time-series Forecasting  
★★★★★★★★★★☆☆  
Competitive Programming  
★★★★★★★★★★☆☆  
C Programming  
★★★★★★★★★★☆☆  
C++ Programming  
★★★★★★★★★★☆☆  
Python  
★★★★★★★★★★☆☆  
Frontend Web Development  
★★★★★★★★★★☆☆  
Bootstrap  
★★★★★★★★★★☆☆  
WordPress  
★★★★★★★★★★☆☆

## AMBUJ KUMAR

I am a self-motivated and an inspired team player, looking for challenging opportunity to do my summer internship in such environment which can enhance my knowledge and skills. I am deeply Intrigued and inclined towards the recent areas of Machine Learning, Deep Learning, Computer Vision and Time-Series Forecasting.

## WORK EXPERIENCE

### ● Summer Research Intern of Deep Learning

#### *Applied Cognitive Science Lab- IIT Mandi*

- ☐ May 2019 – July 2019 📍 Mandi, Himachal Pradesh
- I worked on the topic “Multivariate Time Series Forecasting using Deep Learning Techniques” under the supervision of Dr. Varun Dutt (Assoc. Prof. IIT Mandi)

### ● Web- Development

- Created a my personal website and my school’s website

<https://ambuj501.github.io>

<https://kksvmic.github.io>

Web-Technologies: HTML5, CSS, JavaScript, jQuery and Bootstrap

## EDUCATION

### ● Bachelor Degree

#### National Institute of Technology, Delhi

- ☐ Aug 2017 – Present 📍 Delhi, India
- Major : **Electrical and Electronics Engineering** ~ 3<sup>rd</sup> Year, 6<sup>th</sup> Semester
  - CGPA : 8.50/ 10

### ● XII (Senior Secondary)

~ UP Board

*K K Saraswati Vidya Mandir IC Majhwar Mayang, Sultanpur UP-India*

- ☐ July 2015 – May 2016 📍 Sultanpur, UP
- Percentage : **92.20%**

### ● X (Secondary)

~ UP Board

*K K Saraswati Vidya Mandir IC Majhwar Mayang, Sultanpur UP-India*

- ☐ July 2013 – May 2014 📍 Sultanpur, UP
- Percentage : **90.67%**

## PUBLICATION

- Ambuj Kumar, Aniket Pathak, Maneesh K. Singh, "Encoder Decoder based Linear Discriminant Analysis Technique for the Condition Monitoring of Induction Motor using Stator Current Signal " International Journal for Scientific Research and Development, vol 7, Issue 11 , Jan 2020

## SOFTWARE USED

- AutoCAD
- MATLAB
- Sonic Visualizer

## LIBRARY/TOOLS

- Tensorflow
- Keras
- Pytorch
- Scikit Learn
- Matplotlib
- Seaborn
- Pandas
- OpenCV

## LANGUAGES

- Hindi
- English
- Awadhi

## HOBBIES

- Gardening
- Animal Care
- Playing Cricket

## PERSONAL PROFILE

- **Name :**  
Ambuj Kumar
- **Date of Birth :**  
April 01, 2000
- **Gender :**  
Male
- **Residential Address :**  
Village & Post- Agai,  
Kurwar, Sultanpur  
Uttar Pradesh India  
Pin - 228121
- **Nationality :**  
Indian

## PROJECTS

- **Inception Network for the Fault Detection of Transmission Line**
  - Implemented Inception Convolutional Neural Network on the scalelogram of current signal for the fault detection of Transmission Line.
- **Fully Automatic Bio-floc Fish Farming Solution**
  - Design an automatic fish farm of which consist of automatic food dispenser and various sensor based monitoring and controlling unit
- **Forecasting of Healthcare Expenditures**
  - Evaluating Single-and Multi-Headed Neural Architectures for Time-series Forecasting of Healthcare Expenditures
- **Gaze Controlled Virtual Keyboard**
  - Implement a program which create a virtual keyboard on computer screen and we can press the keys by blinking our eyes.
- **Forecasting of Healthcare Expenditures**
  - Evaluating Single-and Multi-Headed Neural Architectures for Time-series Forecasting of Healthcare Expenditures
- **Deep Surveillance Build a Facial Emotion, Age and Gender Recognition System**
  - Implement a recognition system based on OpenCV and pre-trained weights of CNN model which is able to detect facial emotions, age and gender of human.

## CERTIFICATIONS

- **Machine Learning**  
*Coursera course by Andrew Ng*
- **AI For Everyone**  
*Coursera course by Andrew Ng*
- **Neural Networks and Deep Learning**  
*Coursera course(deeplearning.ai) by Andrew Ng*
- **Improving Deep Neural Network : Hyperparameter tuning,Regularization and Optimization**  
*Coursera course(deeplearning.ai) by Andrew Ng*
- **Convolutional Neural Network**  
*Coursera course(deeplearning.ai) by Andrew Ng*
- **Sequence Models**  
*Coursera course(deeplearning.ai) by Andrew Ng*
- **Structuring Machine Learning Projects**  
*Coursera course(deeplearning.ai) 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*

## ADDITIONAL DETAILS

- Executive Member of Technical Club , NIT Delhi (Aug 2019- Present)
- Secured 5<sup>th</sup> rank out of 170 teams in reverse coding competition of NIT-Delhi.
- Secured AIR 13853 among 1.5 million students in JEE-Mains 2016
- Attended National Symposium on Artificial Intelligence at NIT Delhi in collaboration with Think India and Software Technology Parks of India