AMBUJ KUMAR

A self-motivated and an inspired team player, who is looking for greater opportunities and growth. Intrigued and inclined towards areas of Machine Learning, Deep Learning, Image Processing and Computer Vision.

CONTACT

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📍 Delhi, India

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SKILLS

Deep Learning
★★★★★★★★☆

Computer Vision
★★★★★★★★☆☆

Image Processing
★★★★★★★☆☆☆

Machine Learning
★★★★★★★★☆☆

Audio Processing
★★★★★☆☆☆☆☆

Competitive Programming
★★★★★★★★☆☆

C Programming
★★★★★★★★☆☆

C++ Programming
★★★★★★★★★☆

Python
★★★★★★★★☆☆

Frontend Web Development
★★★★★★★★☆☆

Bootstrap
★★★★★★★★☆☆

WordPress
★★★★★★★☆☆☆

WORK EXPERIENCE

Summer Intern

Applied Cognitive Science Lab - **IIT Mandi**

📅 June 2019 – July 2019   📍 Mandi, Himachal Pradesh

- Performed statistical and Deep Learning analysis in order to understand Landslide Prediction and patient's medicine intake behaviours under the supervision of Dr. Varun Dutt ,an Associate Prof of IIT MANDI.

- I have implemented various Time Series Forecasting Models like ARIMA, SARIMA, MLP, LSTM ,CNN, CNN-LSTM, ConvLSTM, Multi-Headed Deep Learning Models and optimised them.

Web- Development

- Created a school website
  - *https://kksvmic.github.io*
    - Web-Technologies : HTML5, CSS, JavaScript, jQuery and Bootstrap
- Made my personal website
  - *https://ambuj501.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**   ~ *3rd Year, 5th Semester*
  - CGPA **: 8.49 / 10**

- XII (Senior Secondary)   ~ UP Board

  K K Saraswati Vidya Mandir IC Majhwara Mayang, Sultanpur UP

  📅 July 2015 – May 2016   📍 Sultanpur, UP

  - Percentage : **92.20%**

- X (Secondary)   ~ UP Board

  K K Saraswati Vidya Mandir IC Majhwara Mayang, Sultanpur UP

  📅 July 2013 – May 2014   📍 Sultanpur, UP

  - Percentage : **90.67%**

PROJECTS

- LANDSLIDE FORECASTING SYSTEM (06/2019- 06/2019)
  - Work on the project "**LANDSLIDE FORECASTING SYSTEM**" with Dr. Varun Dutt, an Associate Prof of IIT MANDI.
  - My task was to implement various Deep Learning Time Series Forecasting models and apply Ensemble Learning to improve prediction.
- AUTOMATIC IRRIGATION SYSTEM (03/2019- 03/2019)
  - This project demonstrates Automatic Irrigation System with integrated Moisture Sensor and Arduino UNO, which irrigates automatically without any human interference.
- GAZE CONTROLLED VIRTUAL KEYBOARD (02/2019- 02/2019)
  - Implement a program which create a virtual Keyboard on computer screen and we can press the keys by blinking eyes.
  - Technologies : OpenCV and Python
- MOVIE RATING SYSTEM (01/2019 – 01/2019)
  - Implement a program that can correctly predict how much a user give rating to a particular movie.
  - Technologies : AutoEncoder and Boltzmann Machine in PyTorch
- SSD OBJECT DETECTION (01/2019-01/2019)
  - Implement an object program that can correctly Detect object and frame the object on live Web Cam Feed or in video.
  - Technologies : Single Shot MultiBox detection Algorithms with OpenCV
- FACE , EYES AND SMILE DETECTOR (12/2018 – 12/2018)
  - Implement a face-recognition program that can correctly Detect human face, eyes and happiness on live Web Cam Feed or in video.
  - Technologies : Haar Cascades Algorithms, OpenCV and Python
- SPAM CLASSIFIER (10/2018 – 10/2018)
  - Implement a program which is able to classify email as spam or not. Accuracy is 92.5% on test data
  - Technologies : SVMs (Support Vector Machine)

CERTIFICATIONS

June 2019   **Deep Learning with PyTorch-Zero to GANs**
Udemy course by *Aakash N S*

April 2019   **Deep Learning Specialization**
Coursera course(deeplearning.ai) by Andrew Ng

April 2019   **The Complete Front-End Web Development Course**
Udemy course by *Joseph Delgadillo and Nick Germaine*

Feb 2019   **Machine Learning**
Coursera course (Stanford University) by Andrew Ng

ADITIONAL DETAILS

- Executive Member of Mess Committee , NIT Delhi (Aug 2018- Present)
- Secured 5th rank out of 170 teams in reverse coding competition of NIT-D.
- Secured AIR 13853 among 1.5 million students in JEE-Mains 2017.