

# Nishant Vedwal

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## EDUCATION

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### Indian Institute of Technology Mandi

B.Tech, Electrical Engineering

Himachal Pradesh, India

Aug. 2018 – Present

## PROJECTS

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### Bird Classification | Python, TensorFlow, Keras, CNN

- Trained a Deep Learning model aimed to classify birds with their voice.
- The spectrograms were obtained from the audio signals which were used to train the Deep Learning model. Achieved accuracy score of **87%**.

### Abnormality Prediction from X-rays | Python, TensorFlow, Keras

- Trained a convolutional neural network for comparing the x-ray images with healthy patients.
- Used a probabilistic parameter to classify abnormality.

### Descriptive and Predictive analysis of dataset | Python

- The academic project was aimed to predict memory used in a data set of performance records of BNG devices.
- Applied all regression methods after pre-processing using PCA(Principal Component Analysis) for best results. Used different libraries of Python including scikit-learn, Numpy, Pandas.

### Assessment of Mental Health and related concerns | Python

- Conducted a survey for IIT Mandi residents regarding their mental health using a self-made questionnaire based on the DASS scale. Used python for analysing the data set.

### Space Wars | C#, Unity Game Engine

- Developed a 2D scrolling game capable of shooting laser beams at opposing spaceships while also defending itself from enemy lasers and asteroids.
- The game was also having a health bar and coin management system.

### Weather Application | HTML, CSS, JavaScript

- Created a weather application using JavaScript, HTML, and CSS. Used open weather map API for current weather data.

### Automatic Cloth Stand

- Developed a model of an automatic cloth stand, able to operate automatically considering sunlight, wind, and humidity factors.
- Responsible for execution plan of the project.

## RELEVANT COURSES

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**Data Science: Machine Learning Algorithms, Data Structures and Algorithms, Computer Organization,**  
**Data Science: Probability and statistics, Computing Data Sciences**

## TECHNICAL SKILLS

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**Programming Languages:** C++, Python, HTML, CSS, C#, JavaScript

**Libraries and Frameworks:** TensorFlow, Keras, scikit-learn, ReactJS

**Tools and Softwares:** Git, Unity, Visual Studios

## RESPONSIBILITIES AND EXTRA-CURRICULAR ACTIVITIES

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- Publicity member of IIT Mandi's cultural and technical fest, Exodia.
- Subject expert at Chegg, Inc.
- Fluent in English, Hindi with excellent communication skills.
- Loves playing Badminton and Guitar.