

# Nishant Vedwal

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## EDUCATION

**Indian Institute of Technology, Mandi**

*Electrical Engineering (B.Tech), CGPA = 7.65*

Himachal Pradesh, India

*Aug. 2018 – Present*

## CAREER OBJECTIVE

To work in tandem with a team in a challenging and competitive environment where I could improve my knowledge and my capabilities would be put to use for the development of the organization.

## WORK EXPERIENCE

**Oil and Natural Gas Corporation** | *Electrical Engineering, Intern*

July 2021

- Worked on the project - 33kV substations and automatic power factor controller. Implemented different techniques for controlling the power factor for an organization automatically.

## PROJECTS

- **Birds Classification:-** Developed a Deep learning model aimed to classify birds with their sound. The spectrograms were obtained from the audio signals which were used to train the Deep Learning model. Achieved accuracy score of 87%. (Python, TensorFlow, CNN)
- **Data Visualization and Inferences:-** The academic group project was aimed to apply various probabilistic techniques to extract inferences from given dataset. Used different libraries of Python including scikit-learn, Numpy, Pandas. (Python)
- **Descriptive and Predictive analysis of dataset:-** The academic group 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 Reduction) for best results. Used different libraries of Python including scikit-learn, Numpy, Pandas. (Python libraries)
- **Assessment of Mental Health and related concerns for IIT Mandi residents:-** 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. (Python)
- **Space Shooter Game:-** Developed a 2D shooting game using Unity and C# for scripting. (C#, Unity)
- **Weather Application:-** Created a weather application in Vanilla JavaScript, HTML, and CSS. Used open weather map API for current weather data. (HTML, CSS, JavaScript)
- **Face Recognition:-** Implemented a face recognition system with python image processing library. Given some images, this system can recognise the user in those images. Used CNN for object detection purpose. (CNN, OpenCV)

## RELEVANT COURSES

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

## TECHNICAL SKILLS

**Computer Languages:** Python, C++, HTML, CSS, C#, JavaScript  
**Libraries:** Scikit Learn, Keras, Pandas, Numpy, TensorFlow  
**Tools and Softwares:** Git, Unity, Microsoft Office

## EXTRA-CURRICULAR ACTIVITIES

- Publicity member of IIT Mandi's cultural and technical fest, Exodia.
- Fluent in English, Hindi with excellent communication skills.
- Loves playing and watching sports.