

Nishant Vedwal

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EDUCATION

Indian Institute of Technology, Mandi

Electrical Engineering (B.Tech)

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 using libraries like TensorFlow, Keras, openCV, etc. Achieved accuracy score of **87%**. **(Python, TensorFlow, Keras, CNN)** | 🔗
- **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 Analysis) for best results. Used different libraries of Python including scikit-learn, Numpy, Pandas. **(Python)** | 🔗
- **Weather Application:-** Created a weather application using JavaScript, HTML, and CSS. Used open weather map API for current weather data. **(HTML, CSS, JavaScript)** | 🔗
- **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)** | 🔗
- **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)**
- **Space Shooter Game:-** Developed a 2D shooting game in Unity using C# for scripting. **(C#, Unity)**
- **Face Recognition:-** Implemented a face recognition system with python image processing libraries. Given some images, this system can recognise the user in those images. **(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

Programming Languages: Python, C++, HTML, CSS, C#, JavaScript
Libraries: TensorFlow, Keras, Pandas, Numpy, scikit-learn
Tools and Softwares: Git, Unity, Visual Studios

RESPONSIBILITIES AND EXTRA-CURRICULAR ACTIVITIES

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