

# NISHKARSH GANGAL

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## EDUCATION

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**Swami Keshwanand Institute of Technology, Management and Gramothan** Jaipur  
Bachelor of Technology, Electronics and Communication July 2015 - May 2019  
Aggregate Percentage: 60.2

### Relevant Courses

Data Structure and Algorithm, Random Variable & Stochastic Processes, Digital Logic & System Design, Signals and Systems, Industrial Economics & Management

## TRAINING AND INTERNSHIP

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### IMS Pro-School Pune

#### Internship

- Advanced Machine Learning and Artificial Intelligence Course and Internship [↗](#)
- Business Analytics Course and Internship [↗](#)

### North Western Railway | Bikaner Division

#### Software Developer

May'18 - July'18 · [↗](#)

- Designed a feasible process of implementing optical communication system for IR
  - Understood the basics of optical communication
  - Studied the requirements of Indian Railways Design System

## SKILLS

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Programming Languages • Proficient:	Python
Programming Languages • Familiar:	C++, C, JavaScript
Back-end Web Development:	Flask, Django, MongoDB, SQL
ML and AI frameworks:	Tensorflow, Keras, PyTorch, Scikit, Datashader, NLTK

## PROJECTS

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### K-Means-Clustering

C++, OMP, Pthreads

Aug'18 - Oct'18 · 🐱

- Designed and implemented unsupervised Machine Learning K-means-clustering algorithm from scratch.
- Analyzed speedup, performance, and efficiency for Parallel and Sequential Implementation.
- Used OpenMP and Pthreads technologies for threading in C++ (SIMD Structure.)

### Mozart-Flow

Python, Librosa, Machine Learning

May'18 - June'18 · 🐱

- Using Machine Learning techniques to analyze non-symbolic music, varied over instrument | Modules implemented:
  - Gender Recognition: Implemented module to recognize gender based upon acoustic properties of voice and speech.
  - Audio Separation: Separating vocal component from accompanying instruments using REPET-SIM.
  - Musical Instrument Classifier: Classifying musical instruments using Machine Learning algorithms utilizing MFCCs features.