

# KUNAL GOYAL

”Everyone here got some cause”

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## WORK EXPERIENCE

UNREAL AI (Noida)

**Machine Learning Research Intern**

Optimized Neural Networks By Quantizing Weights and using Bit-wise operations in C++

NOV 2018 - PRESENT (FT)

- Implemented XNOR-Net Research paper on the top of Floating point architecture.
- Every equation for CNN was derived manually.
- Testing was done by replicating model architecture in PyTorch.

MERE EDU SERVICES PRIVATE LIMITED (Noida)

**Data Science intern**

Worked on various new technologies

JUNE 2018 - AUG 2018 (FT)

- Built various Machine Learning Models using Sklearn to predict college from rank and categories.
- Analyzed and Cleaned various anomalies in database.
- Scraped various static and dynamic websites.

## MAJOR SELECTED PROJECTS

### 1. Counselling Chatbot

- Through this chatbot user can ask any kind of query regarding 40k+ colleges.
- Dialogflow's NLP is being used to know user intention for a particular query.
- Back-end was built with flask.

LINK <https://newsite.mereschools.com/ai.html>

### 2. Centralized Parking Assistance Using Computer Vision

- This app is built with computer vision that parses parking space data in the cloud and will retrieve to a consumer app that will help the driver to find a parking spot around. All of this is automatic, without any human intervention.

LINK <https://bit.ly/2PGWxEI>

### 3. Convolution Neural Network Framework for edge devices in C++

- Various layers were made in Object Oriented fashion to decrease the inference time.
- Individual unit tests for each layers were made.

## EDUCATION

2016–AUG/2020

**Bachelor of Technology (B-Tech.)**

CGPA : 8.43/10(UP TO 4TH SEM)

Computer Science

USICT (GGSIU)

2014 – 2016

**XII (Senior Secondary)**

PERCENTAGE : 91.80%

CBSE Board (Aggarwal Public School)

## ACHIEVEMENTS

2017–2018

Secured 34th rank in **ACM-ICPC**

**Amritapuri** regionals among top 256 teams of India and other neighbour countries

2018

Secured 7th rank among 2,12,994 participants in **Techgig Codegladiator** Presented by Deloitte.

2019

Expert on **Codeforces**

2019

Finalist of **LinkedIn's MTV GetAJob**

**Season 5** among 65K+ applicants. for Data Science Role..

## TECHNICAL SKILLS

EXPERTISE Data Structure and Algorithm  
System Administration

FRAMEWORKS Flask, TensorFlow, Keras, OpenCV

TOOLS & LIBRARIES Git, Bash, NumPy, Matplotlib  
Beautifulsoup, Vim  
Pandas, Anaconda, Dialogflow

MAJOR LANGUAGES C++, Python, MySQL

OPERATING SYSTEMS Linux, Windows

## MAJOR COURSES

FEB 2018 – AUG 2018

**DeepLearning.ai Specializations**

1. Neural Networks and Deep Learning
2. Improving Deep Neural Networks
3. Structured Machine Learning Projects
4. Convolutional Neural Networks
5. Sequence Models

DEC 2018–FEB 2018

**Machine Learning By Andrew Ng**

Stanford University (Coursera)

## OTHER PORTFOLIO LINK

LINK <https://icpc.baylor.edu/ICPCID/VI3B963CMBIM>

