KUNAL GOYAL

"'Everyone here got some cause"

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WORK EXPERIENCE

NOV 2018 - PRESENT (FT)

UNREAL AI (Noida)
Machine Learning Research Intern

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

- 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.

JUNE 2018 - AUG 2018 (FT)

MERE EDU SERVICES PRIVATE LIMITED (Noida)
Data Science intern

Worked on various new technologies

- 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 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/2PGWxEl

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 (GGSIPU)*
2014 – 2016	**XII (Senior Secondary)** PERCENTAGE : 91.80% Science *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 7t h rank among 2,12,994 participants in **Techgig Codegladiator** Presented by Deloitte.
2018	Secured 4591st rank among 24,584 (in top 18.67%) in **GOOGLE CODEJAM** Qualification Round

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** *Standford University (Coursera)*

OTHER PORTFOLIO LINK

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