# Nikhil Gupta

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## EDUCATION

**BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI**
B.E. in Electrical and Electronics Engineering
Expected June 2020 | Pilani, India

**MDPS SCHOOL, FARIDABAD**
Grad. May 2016 | Faridabad, India
Senior Secondary Result: 94.8 %

## COURSEWORK

**UNDERGRADUATE**
Data Structures and Algorithms
Object Oriented Programming
Operating Systems
Foundation of Data Science
Number theory
Optimization
Discrete Structures for Computer Science

## SKILLS

Programming Languages:
• C++ • Java • Python • C • C #
Familiar:
•Unity •Docker •Tensorflow • Pytorch
• Keras • GCP • Android
Operating Systems:
• Windows • Linux

**GOOGLE FOOBAR**
•Received the rare Google foobar challenge from google
•Currently on the final level of the challenge

## POSITIONS OF RESPONSIBILITY

**IEEE BITS PILANI STUDENT CHAPTER**
Chairman of Technical Committee
April 2018 – Feb 2019
• Led a team of 53 students
•Organised numerous IEEE affiliated events like conclave, workshops, robotics and CS based events in college tech fest

**TEAM ROBOCON**
Chief Programmer
Aug 2016 – Jan 2018
• Wrote complete code of locomotion for our robot in ABU Robocon'17
• Organised workshops of line/ball following bot using OpenCV in our college

## OLYMPIADS/COMPETITIONS

**2018** || ICPC Online Prelims Rank 117
**2017** || ABU ROBOCON
**2014** || NTSE State Rank 2
**2014** || NSEA Scholar
**2015** || RMO Scholar

## EXPERIENCE

**HELLOVORLD** | Co-Founder
Dec 2017 – Sep 2018
- Provides AR/VR/MR solutions for interior designers, product designers and architects
- Used HTC VIVE and unity to create and demonstrate 3D interactive visuals of raw designs for effective client engagement and presentations
- Tech stack used : Vuforia, C#, Android studio, Java, HTC VIVE, Unity

**QUANTIPHI ANALYTICS ( R&D TEAM )** | AI/ML Research Intern
July 2019 - Present | Mumbai, India
- Currently exploring multi-modal fusion techniques
- Deployed Pytorch and Keras deep learning models in production using Tensorflow Serving, TensorRT and flask, reducing the inference time by 30%
- Trained an enhanced super-resolution generative adversarial network and achieved a PSN ratio of 44 (state of the art network in super resolution)
- Tech stack : GCP, Tensorflow, TensorRT, pytorch, Docker, Onnx, Keras, Python, Flask, HTML

**SAMSUNG R&D INSTITUTE** | Research Intern
May 2019 – July 2019 | Noida, India
- Created a proof of concept for a patent under the IP team of Samsung R&D (The project is still under the process of patenting )
- Was offered a pre-placement offer by the company
- Tech stack: Android Studio, Java, TensorFlow Lite for On device Inferencing, Python

**WEIR ENSCI** | Intern
April 2019 – May 2019 | Bangalore, India
- Used IoT devices and AR markers to develop an app to eliminate high machine operation complexities and provide safe working environment. Project demo link : click here
- Secured the internship by winning the Tech Meraki Innovation Challenge
- Tech stack: Arduino, Android studio, Unity, Vuforia, C#, Java

## ZEISS INNOVATION CHALLENGE

**ORGANIZED BY: CARL ZEISS** Aug 2018 | Vienna , Austria
- One of the eight global participants to present their idea and work with the team of Carl Zeiss in Vienna, Austria in the field of 360 experience and perfect photography
- Presented the idea of using a cluster of miniature drones during events to generate a 3D holographic video of the event

## PROJECTS AND COMPETITIONS

**VIDEO360** | Winning Project of Microsoft CodeFunDo-onCampus
Feb 2018
- Developed an Android app which captures 360 video in smartphones by stitching video feeds from connected sources.
- Facilitated capturing 360 visuals using multiple smartphones with the help of fisheye lens, cutting their development cost by 60%.
- Tech stack : Android, OpenCV, Python, Java || Project demo link : click here

**BANKAR** | Among Top 4 teams in Bengalathon: National Level Hackathon
Aug 2018
- Developed a POC for an AR banking app to analyze daily expenses, bank balance and debit/credit card transactions. Project demo link : click here
- Data analysis through 3D AR charts and graphs displayed over credit/ debit card

**FLASH BILL** | Runner Up Project in Microsoft CodeFunDo-onCampus
Jan 2017
- Developed an Android app to generate electricity bill in real time to eliminate the time gap between usage and billing of electricity
- Shortlisted for shopclues spark 3 innovation challenge onsite finals
- Tech stack: Android studio, Raspberry Pi, Hall Current Sensor, Java, Python