Nikhil Verma

⌂ 247, Shankar Bhawan, BITS Pilani, Rajasthan
☎ +91 99288 34365
✉ nikhilweee@gmail.com
✉ f2014200@pilani.bits-pilani.ac.in
% nikhilweee.me
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EDUCATION

Birla Institute of Technology and Science, Pilani

B.E.(Hons) Electrical and Electronics Engineering
AUGUST 2014 - PRESENT

EXPERIENCE

Research Intern | AUGUST - DECEMBER 2016 | CEERI.RES.IN
Machine Vision Lab, CSIR - CEERI, Pilani
- ✦ Under Dr Jagdish Raheja, Sr Principal Scientist, CSIR–CEERI
- ✦ Worked on a People Monitoring System based on Flask using Raspberry Pi and OpenCV

Research Intern | MAY - JULY 2016 | BISAG.GUJARAT.GOV.IN
Department for Software Development, BISAG, Gandhinagar
- ✦ Used K–means and Random forests to classify multispectral images using tools like QGIS, GDAL, Numpy and Scikit–Learn

LEADERSHIP

Coordinator MAY 2016 - SEPTEMBER 2016
Department of Visual Media (DVM), BITS Pilani
Head of the technical team of 40+ members who build websites, registration systems, mobile apps and other software for all major college fests

OTHER

Webmaster, Backend Developer
DVM, BITS Pilani
AUGUST 2014 - MARCH 2016
Built the backend and management softwares for all college fests, handling more than 4000 participants

Open Source Contributor, NumFOCUS
MARCH 2016 | Software Carpentry

Participant, code.fun.do
MARCH 2016 | Campus wide hackathon by Microsoft

SELECTED PROJECTS

Image Captioning using LSTMs
- ✦ Developed a deep learning model for generating short descriptions of images using CNNs and LSTMs
- ✦ Implemented LSTMs from scratch in python using Numpy for CPU and TensorFlow for GPU.

Autonomous Mobile Bots using Reinforcement Learning
- ✦ Working on mobile robots using Deep Q Learning

Sentiment Analysis using CNNs
- ✦ Region wise sentiment analysis of twitter feed using CNNs to predict US Presidential Elections

RELEVANT COURSES

- ✦ Machine Learning, Neural Networks & Fuzzy Logic, Selected Topics in CS
- ✦ Control Systems, Communication Systems, Data Communication and Networks
- ✦ Computer Programming, Object Oriented Programming, Discrete Structures for Computer Science, Operating Systems

SKILLS

- ✦ Proficient in the Python
- ✦ Proficient in building and deploying web apps
- ✦ Experienced with popular machine learning libraries like TensorFlow, Numpy