

Nikhil Verma

EDUCATION

Birla Institute of Technology and Science, Pilani

BE(Hons) Electrical and Electronics Engineering

AUGUST 2014 - PRESENT

- ✦ scored 370/450 in BITSAT
- ✦ current CGPA of 7.99

EXPERIENCE

Backend Developer | AUGUST 2014 - MARCH 2016

Department of Visual Media, BITS Pilani

- ✦ built the official websites for all major college festivals, handling more than 4000 participants
- ✦ built softwares and management interfaces to handle live registrations, automated emails and payment portals
- ✦ responsible for server maintenance and management, automated deployment and backups

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

SELECTED PROJECTS

Image Captioning using LSTMs

- ✦ developed a deep learning model for generating short descriptions of images using CNNs and LSTMs
- ✦ implemented LSTMs in python using Numpy for CPU and TensorFlow for GPU implementation

ACHIEVEMENTS

Coordinator MAY 2016 - SEPTEMBER 2016

Department of Visual Media, BITS Pilani

- ♦ head of the technical team of 40+ members who build websites, registration systems, mobile apps and other software for college fests

OTHER

Open Source Contributor, NumFOCUS

MARCH 2016 | Software Carpentry

Participant, code.fun.do

MARCH 2016 | Campus wide hackathon by Microsoft

247, Shankar Bhawan

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SKILLS

Proficient

- ✦ Languages: Python
- ✦ Frameworks: Django, Flask
- ✦ OS: Linux
- ✦ Tools: Git, Docker

Familiar

- ✦ Languages: C, JavaScript
- ✦ Frameworks: Numpy, Matplotlib
- ✦ Databases: MySQL, Redis, MongoDB
- ✦ Hosting: AWS, DigitalOcean, Heroku, Openshift

RELEVANT COURSES

- ✦ Probability and Statistics
- ✦ Control Systems
- ✦ Communication Systems
- ✦ Data Communication and Networks

- ✦ Machine Learning
- ✦ Neural Networks & Fuzzy Logic

- ✦ Computer Programming
- ✦ Object Oriented Programming
- ✦ Discrete Structures for Computer Science
- ✦ Data Structures and Algorithms