

RP 228 BITS Pilani Bajasthan 333031

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Developer, Deep Learning Enthusiast

Skills_

Keywords Python, C++, Lua, ŁTFX, HTML, Javascript, Django, Flask, AWS, Numpy, TensorFlow, Keras, PyTorch

Proficient in Python, Experienced in popular deep learning frameworks like TensorFlow, Keras, PyTorch and Numpy. Experienced in developing web apps using Django and Flask, deploying on AWS, Azure and others.

Education

Birla Institute of Technology and Science

B.E. (HONS.) ELECTRICAL AND ELECTRONICS ENGINEERING

Cummulative GPA 7.79

Pilani, Rajasthan

Aug 2014 - Present

Experience ____

IBM Research New Delhi

RESEARCH INTERN May - Jul 2017

- · Worked on improving techniques for generating answerable questions from a given source text.
- · Implemented a novel approach using a syntactic sequence to sequence model to handle the problem of unknown sequences.
- · Achieved improvements in automatic evaluation metrics using a much smaller vocabulary.

Bhaskaracharya Institute for Space Applications and Geo-Informatics

Gandhinagar, Gujarat

SUMMER INTERN

May - Jul 2016

- Studied classification techniques for satellite imagery to aid in identifying areas being illegally mined.
- Used techniques like K-means and Random forests and tools like QGIS, GDAL, Numpy and Scikit-Learn.
- Our project was one of the two most highest scoring ones in the final presentation among nine others.

Department of Visual Media

Pilani, Rajasthan

BACKEND DEVELOPER, COORDINATOR

Aug 2014 - May 2016

- Developed the backend for the official websites of all three major college festivals.
- Head of the department of over 40 skilled enthusiasts.
- Our systems managed over 1000 participants over the course of four days.

Projects _____

Autonomous Mobile Bots | V-REP, REINFORCEMENT LEARNING

Apr 2017

- Trained a three layer deep reinforcement learning network to steer a bot automatically given a path.
- Created OpenAI-Gym style APIs as an interface between V-Rep and Keras to facilitate training.
- Made an actual hardware implementation of the model based on Raspberry Pi.

Image Captioning | CNNS, LSTMS

Oct 2016

- Developed a deep learning model for generating short descriptions of images using CNNs and LSTMs.
- Implemented LSTM in Python using Numpy for CPU and Tensorflow for GPU.

Poll Predictor | CNNS, SENTIMENT ANALYSIS

Apr 2016

- · Used CNNs to predict the US presidential elections by performing sentiment analysis on real time twitter feed.
- Implemented CNNs in Python from scratch.

Network Traffic Classifier | MLPS

Apr 2017

- Developed a real time system using neural networks to classify live traffic into Tor, Web, P2P and VPN Traffic.
- Used multi-layer perceptrons with specific transport layer properties as features for the model.

Registration Systems | DJANGO, AWS

Feb 2016

- Developed the centralised backend for the official websites of all major college fests.
- The system is used to manage registration, billing, accommodation and event participation of over 1000 participants during the fests.