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# **FDUCATION**

### NORTH CAROLINA STATE UNIVERSITY

August 2017 - Present

MS Computer Science

GPA: N/A

Coursework: Foundations of Data Science, Automated Learning and Data Analysis, Algorithms

#### PUNE INSTITUTE OF COMPUTER TECHNOLOGY

2013 - 2017

BEng Computer Engineering

GPA: 3.48 / 4

Coursework: Business Intelligence, Data Mining, High Performance Computing, Database Management

## EXPERIENCE

# **E20PEN | DATA SCIENCE INTERN**

Pune, India | Dec 2016 - March 2017

- Analyzed time series data to forecast retail sales with multiple store multiple item combinations.
- Achieved an accuracy of 89.47% using an ensemble of machine learning models for predicting the optimal price to maximize sales.

# SKILLS

LANGUAGES Python, C++, Java, HTML, CSS, Javascript

DATABASES MySQL, MongoDB, SQlite3

FRAMEWORKS / TOOLS Keras, Pytorch, Django, scikit-learn, Pandas, Jupyter Notebook, Express.js

# **PROJECTS**

#### IMAGE CAPTIONING | KERAS, TENSORFLOW, NUMPY, PANDAS, MATPLOTLIB, TQDM

Generates automatic captions for images. Trained the model on the Flickr8K dataset. Extracted the features of images using pretrained InceptionV3 model and used beam search to predict the captions. Achieved a loss value of 1.5987 after training for 50 epochs.

#### SEMANTIC IMAGE SEGMENTATION | Keras, Tensorflow, Numpy, Matplotlib

Implementation of the 100 Layer Tiramisu paper on the camvid dataset. Trained the model for approximately 500 epochs and achieved an accuracy of 89% by segmenting the image into 32 segments classes.

# DEEP CONVOLUTIONAL GAN | KERAS, NUMPY, MATPLOTLIB, TQDM

Implemented the DCGAN paper and trained the generator and the discriminator on the MNIST dataset. Trained the generator and the discriminator for 50 epochs obtaining very good results.

#### NEURAL STYLE TRANSFER | KERAS, MATPLOTLIB, NUMPY

Used VGG-16 model trained on imagenet and calculated the content loss and the style loss to create artistic style photos. Wrote a blog post explaining the technique used to achieve style transfer.

## PREDICTING VISITOR ATTENDANCE IN A PARK | SCIKIT-LEARN, PANDAS, MATPLOTLIB

Built an ensemble of XGBoost and Gradient Boosting model to predict the number of visitor attendance count of the National Park. Cleaned and analyzed the data and engineered new features using the insights obtained by analyzing the data. Achieved an error rate(RMSE) of 95.59.

# **AWARDS**

#### RANK 16 / 1494

Analytics Vidhya Ultimate Student Hunt Machine Learning Competition.

#### **RANK 7 / 926**

MiniHack: Machine Learning Competition held by Analytics Vidhya