Yash Katariya

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EDUCATION

NORTH CAROLINA STATE UNIVERSITY | MS Computer Science — 2017 - Present

PUNE INSTITUTE OF COMPUTER TECHNOLOGY | BEng Computer Engineering — 2013 - 2017

EXPERIENCE

E2OPEN | Data Science Intern — Pune, India | Dec 2016 – March 2017

- Analysed 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
https://github.com/yashk2810/Image-Captioning
Generates automatic captions for images. Trained the model on the Flickr8K dataset. Extracted the features of images using InceptionV3 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
https://github.com/yashk2810/Semantic-Image-Segmentation
Implementation of the 100 Layer Tiramisu paper on the Camvid dataset.

DEEP CONVOLUTIONAL GAN | Keras, Numpy, Matplotlib, Tqdm
https://github.com/yashk2810/DCGAN-Keras
Implemented the DCGAN paper and trained the generator and the discriminator on the MNIST dataset.

NEURAL STYLE TRANSFER | Keras, Matplotlib, Numpy
https://github.com/yashk2810/Neural-Style-Transfer
Used VGG-16 model trained on Imagenet 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
https://github.com/createai/Footfall-regression
Built XGBoost and Gradient Boosting models to predict the number of visitor attendance count of the National Park. Cleaned and analyzed the data and engineered new features. Achieved an error rate(RMSE) of 95.59.

AWARDS

RANK 16/1494
Analytics Vidhya Ultimate Student Hunt Machine Learning Competition.

RANK 9/926
MiniHack: Machine Learning Competition held by Analytics Vidhya