

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 7 / 926

MiniHack: Machine Learning Competition held by Analytics Vidhya