

Surya Prakash

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Education

2019 – 05/2023	B.tech computer science specialisation in Artificial intelligence and Machine learning <i>Galgotias University</i> 8.6 CGPA
2017 – 2019	Higher secondary school <i>Hope Hall Foundation School</i> 6.8CGPA
2016 – 2017	Secondary School <i>Lord Buddha Public School</i> 10 CGPA

Professional Experience

07/2022 – 12/2022	Data scientist intern <i>Coventic pharma pvt.ltd</i> Conducted extensive work in detecting anomalies and outliers in complex datasets, utilizing a range of data science tools including Scikit-learn, Pandas, NumPy, and Matplotlib. Successfully identified and flagged outlier points in geographical data, providing valuable insights to stakeholders and enhancing decision-making processes. Leveraged data visualization techniques to present findings in clear and actionable ways, driving effective communication and collaboration across teams.
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Projects

Image caption generator using PyTorch

The model is designed to identify and predict the most likely scenarios depicted in an image. It was trained using transfer learning on VGG16 weights and an LSTM network, enabling it to accurately caption the processes taking place in the image.

Utilizing transfer learning on VGG16 weights and an LSTM network, the model is capable of accurately predicting the best possible scenarios present in a given image. Its specialized architecture allows it to caption the processes occurring in the image with precision.

The model, which has been trained on VGG16 weights and an LSTM network using transfer learning, excels at identifying and predicting the most probable scenarios present in an image. Its advanced architecture enables it to caption the processes depicted in the image with great accuracy.

Transcribing handwritten images using deep learning

With my expertise in computer vision, I have developed a method for generating sequences of words from input images. This involves passing the image through a convolutional network to retrieve the feature map and then processing it through an RNN to generate the sequence of words.

Through the use of CNNs and RNNs, I have created a highly effective system for transcribing handwritten words from images. The process begins by passing the image through a convolutional network to extract the feature maps, which are then fed through an RNN to generate the corresponding sequence of words. The CTC loss function is used to ensure the accuracy of the transcriptions.

My specialized knowledge in deep learning has enabled me to develop an innovative approach to transcribing handwritten words from images. This involves using CNNs and RNNs to extract the feature maps and generate the sequence of words, respectively.

Click Through Rate (CTR) of an email campaign

I have successfully developed a cutting-edge model that predicts the optimal time for users to click on a company's promotional email. By analyzing key features such as word counts, day and time of sending, and subject lines, I have harnessed the power of Random Forest and Adaptive Boosting algorithms to deliver unparalleled accuracy and results.

In the development of this model, I utilized a range of data science techniques, including feature selection and parameter optimization, to ensure maximum performance and efficacy. Through the use of Gridsearchcv, I was able to optimize the model parameters, while a wrapper method of feature selection allowed me to select the most impactful features for analysis..

Skills

Deep Learning: PyTorch, Tensorflow
Programming: Python,R
Data Analysis: Pandas,Numpy,Sklearn
Computer Vision Natural Language Processing
Version Control: Github
Deployment: Docker, Flask
Database: MySQL,MongoDB

Certificates

One fourth labs

- Deep Learning (August 2021)

**AICTE eduskills virtual
internship**
Machine learning

**Programming, Data Structures
and Algorithms using Python,
IIT Madras NPTEL**
December 2020