Komal S K

Computer Vision, Deep Learning and AI Engineer

3+ years of Professional Experience in Machine Learning, Deep Learning, Computer Vision, Image Processing and others. Passionate about using talent, to solve real-world challenges through state-of-the-art technology.

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WORK EXPERIENCE

Lead Software Engineer
Avin Systems (Kluas IT)
12/2021 - Present   *Bengaluru India*

Senior Software Engineer
Mindtree
08/2018 - 12/2021   *Bengaluru, India*

TECHNICAL PROJECTS

Claim Assessment Engine (07/2021 - 11/2021)
- The product is a NLP (Natural language process) based classification. It uses Fasttext algorithm and a rule based engine. Built on Azure uses CI/CD pipeline using python language.

Package Description (04/2021 - 08/2021)
- Identifying cosmetic product features such as Brand, Ingredients, Package type. The algorithms used were tesseract OCR, Shape recognizer(Opencv code), CNN classifier. Deployed using docker azure.

Shelf Analysis (01/2021 - 04/2021)
- Identifying the number of items present on a shelf and recognizing the specific products. Uses OCR and SKU detection. Language : Python.

Content Recognition and Hand Written Text Recognition for Merchant Onboarding (bank customer). (06/2020 - 11/2020)
- Content detection - Faster RCNN algorithm, Printed text recognition done by Tesseract engine, Handwritten text recognition done by using HTR algorithm.

Face Mask Detectiom and Social Distancing (03/2020 - 06/2020)
- Face mask recognition using Faster - RCNN neural network, person detection done by using YOLOv3, social distancing calculated by using bird's eye view.

People Protection Equipment Detection (08/2019 - 12/2019)
- Built a model for detecting Helmet, Jacket (vest-coat), safety-glasses and safety gloves. Model used was mobilenet- SSD built on tensorflow.

License Plate Number Recognition (05/2019 - 08/2019)
- Built a YOLO (You look only once) model for character recognition.

Mindtree Technical Fest Projects
- Age and Gender Recognition
- Thumbnail creation using opencv.

EDUCATION

Master of Technology(M.Tech), Software Engineering
R.V College of Engineering, Bengaluru
09/2016 - 08/2018   *9.51*

Bachelor of Engineering(B.E), Information Science
Sambhram Institute Of Technology(VTU)
09/2012 - 07/2016   *66%*

SKILLS

Python   C/C++   OpenCV   Matlab

Tensorflow, Keras   Python FLask   Image Processing

Numpy, Sklearn   Pytorch   CUDA   Azure, EC2,S3

ACHIEVEMENTS

Gold Medalist in M. Tech from R.V College of Engineering, 2018 Batch

Second runner up - AI wizard contest Osmosis-2019 at Mindtree Ltd.

A-team award and Eureka awards - Mindtree Ltd.

PUBLICATIONS

Fish Detection and Classification Using Self organized Maps
Published in - CiiT International Journal. Of Artificial Intelligent Systems and Machine Learning , Vol 10 ,No 5

Using Convolutional Neural Network to improve upon Support vector machines based Video tamper classification.
International Journal of Soft Computing , Page No.: 53- 60 Volume: 14, Issue 3

DOMAIN SKILLS AND TOOLS

Object Classification, Object detection, text extraction, image processing, NLP - fasttext. Annotation Tools : LabelImg, CVAT, LabelMe, VoTT. Models : Inception V3, YOLO, MobileNet, VGG16, VGG19, RNN, K-Means, Faster RCN, CNN.

LANGUAGES

English
Full Professional Proficiency

Kannada
Native or Bilingual Proficiency

Hindi
Professional Working Proficiency

INTERESTS

Drawing   Painting   Jewellery Making   Cooking

Singing   Chess   Badminton