🏶 gokulkarthik.com | 💌 gokulkarthikk@gmail.com | 🖸 gokulkarthik | 🛅 gokulkarthik | 🕈 Abu Dhabi, UAE

Education

Mohamed Bin Zayed University of Artificial Intelligence | MSc in Computer Vision

• Coursework: Machine Learning, Computer Vision, Geometry for Computer Vision, Visual Object Detection & Recognition, Trustworthy Al

Anna University | BTech in Information Technology

- Awarded Gold Medal of Excellence (Overall Best Outgoing Student) out of 1000+ graduating students in 2019 batch
- Coursework: Object Oriented Programming, Data Structures & Algorithms, Web Technologies, Data Base Management System,
 Software Engineering, Big Data, Data Mining

Experience ____

Microsoft Research | Machine Learning Research Intern

iii 2022/Jun – 2022/Aug ♥ Bengaluru, India

• Extensively evaluated the design choices for Text-To-Speech systems in Indian languages

Mohamed Bin Zayed University of Artificial Intelligence | Machine Learning Research Assistant

• Improved unsupervised adversarial attack classification with double variational autoencoders

TCS Research | Machine Learning Developer

2019/Apr - 2020/Nov ♥ Chennai, India

- · Improved retails sales forecasting using N-Gram models, Recurrent Neural Networks and LSTNet
- Implemented state-of-the-art spatio-temporal travel time prediction models
- · Developed intelligent employee profile retrieval system using text mining techniques
- Developed computer vision pipelines to solve curved text extraction and perspective correction

IIT Madras / One Fourth Labs / Al4Bharat | Machine Learning Project Intern

2018/Dec - 2019/Mar ♥ Chennai, India

- Developed scene text detection and recognition models for Indian languages
- Developed handwriting recognition system using Convolutional Recurrent Neural Networks for answer-script evaluation
- Set up programming competitions for the PadhAl Deep Learning course

Skills_

Programming Python

Technologies Machine Learning, Computer Vision, Natural Language Processing, Speech Processing, Data Science

Python Packages PyTorch, Hugging Face, Keras, Tensorflow, Scikit-Learn, OpenCV, NLTK, NetworkX, Numpy, Pandas, Matplotlib

Platforms Google Cloud Platform, Amazon Web Services, MS Excel, Tableau, QlikView

Software Frameworks Git, Streamlit, FastAPI, Flask, HTML, CSS, JS, Shiny

Honors

2021	Winning Team	in the ADAFSA Agrithon for	developing visual pl	lant disease d	iagnosis, optima	l animal clinic placement etc.
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2021 **Finished Second** in the GITEX x AI-everything High Flyer challenge for the AI-powered dubbing presentation

2021 Selected among the Top 10 teams for the deep tech startup incubation program by Khalifa Innovation Center

2020 Innovation Pride Award by TCS for winning the Image Enrichment Challenge 2 out of 100+ participants

2020 Winning Team Lead of TCS DDS ML Hackathon out of 8 teams for developing the corn-hybrid recommendation system

2019 Special Initiative Award by TCS for the data driven solution to DDS profile hunt

2019 Winning Team Lead of IIT Madras AI Hackathon out of 500+ teams for developing safe route identification system

2019 Gold Medal of Excellence for the best outgoing student out of 1000+ students of TCE

2018 Winning Team Lead of Guvi-HCL AI Hackathon out of 30+ teams for developing the qualitative recommendation app

2017 All India Rank 1 in the NPTEL course 'Social Networks'

2017 Top 8 in the MHRD Smart India Hackathon out of Top 50 teams for the development of smart evaluation application

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Certifications

- 2021 Generative Adversarial Networks (GANs) Specialization, By Deeplearning.ai on Coursera
- 2020 Futures Thinking Specialization, By Institute for the Future on Coursera
- 2020 Computer Vision Nanodegree, By Udacity
- 2020 **Deep Learning Specialization,** By DeepLearning.ai on Coursera
- 2018 **Data Science Summer School**, By ACM and IIT Madras at Goa University
- 2018 Data Analyst Career Track, By DataCamp
- 2017 Applied Data Science Specialization, By University of Michigan on Coursera
- 2017 Social Networks Course, By IIT Madras on NPTEL (All India Rank 1)

Mini Projects

- 2020 **Standard Deep Learning Projects** Baby Name Generation, Neural Style Transfer, Image Segmentation etc.
- 2020 Cryptocurrency Market Prediction Using Long- and Short-term Time-series network (LSTNet).
- 2017 GitHub Social Network Analysis Exploration of data science repositories

Publications

Hate-CLIPper: Multimodal Hateful Meme Classification based on Cross-modal Interaction of CLIP features

♀ EMNLP Workshop

GOKUL KARTHIK KUMAR, KARTHIK NANDAKUMAR

Dec-2022

MuCoT: Multilingual Contrastive Training For Question-Answering In Low-resource Languages
Gokul Karthik Kumar, Abhishek Singh Gehlot, Sahal Shaji Mullappilly, Karthik Nandakumar

Q ACL Workshop May-2022

Q ArXiv

An Empirical Study Of Self-supervised Learning Approaches For Object Detection With Transformers Gokul Karthik Kumar, Sahal Shaji Mullappilly, Abhishek Singh Gehlot

May-2022

Method And System For Forecasting Sales Based On N-Gram Model

Q US Patent

GOKUL KARTHIK, AVINASH ACHAR, BALARAMAN RAVINDRAN

Mar-2021

Dynamic Bus Arrival Time Prediction: A Temporal Difference Learning Approach

QIJCNN

VIGNESH LKP, AVINASH ACHAR, GOKUL KARTHIK

Jul-2020