

Gokul Karthik

MSc Computer Vision @ MBZUAL · BTECH Information Technology @ Anna University

Al Applied Research Scientist · Exploring Deep Tech Entrepreneurship

Won 8 National-level Hackathon type events in India & UAE

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Education

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

Abu Dhabi, UAE

CURRENT CGPA: 4 / 4

2021/Aug - 2023/May (Expected)

- Coursework: Machine Learning, Computer Vision, Geometry for Computer Vision, Visual Object Detection & Recognition, Trustworthy Al
- Machine Learning Project: MuCoT Multilingual Contrastive Training Approach for Low-resource Languages (NLP)
- Visual Object Detection & Recognition Project: Self-supervised Pretraining of Object Detection Transformers (Computer Vision)
- Trustworthy AI Project: HateCLIP Multimodal Hateful Meme Classification with CLIP Transformer Encoders (NLP+Computer Vision)

Anna University | BTech in Information Technology

9 Madurai, India

CGPA: 9.74 / 10 | DEPARTMENT RANK: 1 / 130 | THIAGARAJAR COLLEGE OF ENGINEERING

- 2015/Jul 2019/May
- Awarded Gold Medal of Excellence (Overall Best Outgoing Student) out of 1000+ graduating students in 2019 batch
- Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Web Technologies, Data Base Management System, Software Engineering, Big Data, Data Mining

Experience _____

Mohamed Bin Zayed University of Artificial Intelligence | Research Assistant

♀ Abu Dhabi, UAE

MENTOR: DR. KARTHIK NANDAKUMAR

2021/Jan - 2021/Jul

• Developed DoENet, a double encoder architecture using Variational Autoencoders and GANs, for unsupervised adversarial classification

TCS Research & Innovation | Machine Learning Developer

♀ Chennai, India

MENTORS: Dr. Avinash Achar, Dr. Girish Palshikar; Academic Collaborator: Dr. Balaraman Ravindran

2019/Apr - 2020/Nov

- Improved sales prediction models for the retails client using N-Gram models and Deep Neural Networks like RNNs and LSTNet
- Implemented latest spatio-temporal travel time prediction models as baselines for evaluating temporal difference prediction models
- Developed intelligent employee profile retrieval system using text mining techniques
- Developed computer vision pipelines to solve curved text extraction, perspective correction etc

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

♀ Chennai, India

MENTORS: DR. PRATYUSH KUMAR, DR. MITESH KHAPRA

2018/Dec - 2019/Mar

- Developed robust scene text recognition architecture for Indian languages
- · Implemented Efficient and Accurate Scene Text Detector (EAST) for Indian signboard scene text detection
- Developed handwriting recognition system using Convolutional Recurrent Neural Networks for automatic answer-script evaluation
- Set up programming competitions for the PadhAl Deep Learning course

Honors_____

- 2021 **Winning Team** in the ADAFSA Agrithon for developing visual plant disease diagnosis, optimal animal clinic placement etc.
- 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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Skills

Technologies Deep Learning, Computer Vision, Natural Language Processing, Data Science, Social Network Analysis

Programming Python, C++, R, MySQL, 蹈_EX

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, Android

Certifications_

	2021	Generative Adversarial Networks (GAN	s) Specialization,	By Deeplearning.ai on Coursera
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- 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

MuCoT - Multilingual Contrastive Training Approach for Low-resource Languages

Dublin, Ireland

GOKUL KARTHIK KUMAR, ABHISHEK SINGH GEHLOT, SAHAL SHAJI MULLAPPILLY, KARTHIK NANDAKUMAR

May-2022

Association for Computational Linguistics - Workshop on Speech and Language Technologies for Dravidian Languages (ACL-W)

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

Online

GOKUL KARTHIK, AVINASH ACHAR, BALARAMAN RAVINDRAN

Oct-2020

Indian Patent Application E-1/52276/2020-MUM

Dynamic Bus Arrival Time Prediction: A Temporal Difference Learning Approach

Online

Vignesh LKP, Avinash Achar, **Gokul Karthik**

Jul-2020

International Joint Conference on Neural Networks (IJCNN)

Reference

Dr. Karthik Nandakumar

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ASSOCIATE PROFESSOR, MOHAMED BIN ZAYED UNIVERSITY OF ARTIFICIAL INTELLIGENCE

Primary Academic Advisor in MSc

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