

# **Gokul** Karthik

COMPUTER VISION GRADUATE STUDENT @ MBZUAI · BTECH IN INFORMATION TECHNOLOGY ARTIFICIAL INTELLIGENCE & COMPUTER VISION ENTHUSIAST · EXPLORING DIGITAL DEEP TECH ENTREPRENEURSHIP

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# Education \_\_\_\_\_

#### MBZ University of Artificial Intelligence | MSc in Computer Vision

Abu Dhabi, UAE

CURRENT CGPA: 4 / 4

2021/Aug - 2023/May (Expected)

Relevant Coursework: Machine Learning, Computer Vision, Geometry for Computer Vision, Visual Object Detection and Recognition, Trustworthy AI

## **Anna University | BTech in Information Technology**

**♀** 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 \_\_\_\_\_

# MBZ University of Artificial Intelligence | Computer Vision Research Assistant

Abu Dhabi, UAE

MENTOR: DR. KARTHIK NANDAKUMAR

2021/Jan - 2021/Jul

• Developed 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 yield prediction model for hybrid corn crops to recommend effective crossing of species
- Developed computer vision pipelines to solve curved text extraction, perspective correction etc

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

**Q** 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

## Publications \_\_\_\_\_

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

Online

GOKUL KARTHIK, AVINASH ACHAR, BALARAMAN RAVINDRAN; INDIAN PATENT APPLICATION E-1/52276/2020-MUM

Oct-2020

## **Dynamic Bus Arrival Time Prediction: A Temporal Difference Learning Approach**

Online

VIGNESH LKP, AVINASH ACHAR, GOKUL KARTHIK; IJCNN - IEEE WCCI

Jul-2020

## Skills\_

**Technologies** Deep Learning, Computer Vision, Text Mining, Data Science

**Python Packages** 

Programming Python, C++, R, MySQL, 町EX

**Platforms** 

PyTorch, Keras, Tensorflow, Scikit-Learn, OpenCV, NLTK, NetworkX, Numpy, Pandas, Matplotlib, Seaborn

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

**Software Frameworks** 

Git, Streamlit, FastAPI, Flask, HTML, CSS, JS, Shiny, Android

DECEMBER 30, 2021 GOKUL KARTHIK · CV

# **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

# 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