

# **Gokul** Karthik

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

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# **Education**

## Anna University, Thiagarajar College of Engineering

**♀** Madurai, India

**BTECH IN INFORMATION TECHNOLOGY** 

2015/Jul - 2019/Apr

- Awarded Gold Medal of Excellence Overall Best Outgoing Student of 2019 batch
- Coursework: Data Structures & Algorithms, Data Base Management System, Web Technologies, Probability & Statistics, Data Mining
- CGPA: 9.74 out of 10 (97.4%); **Department Rank: #1**; Grade: First Class with Distinction

# Experience \_\_\_\_\_

### MBZUAI | Research Assistant #DeepLearning #Computer Vision

**♀** Abu Dhabi, UAE

MENTOR: DR. KARTHIK NANDAKUMAR

2021/Jan – Present

• TBD

### TCS Research & Innovation | Machine Learning Developer #MachineLearning

**♀** Chennai, India

MENTORS: DR. AVINASH ACHAR, DR. GIRISH PALSHIKAR; ACADEMIC COLLABORATOR: DR. BALARAMAN RAVINDRAN

2019/Apr - 2020/Nov

- Improving 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 (Winner DDS Profile Hunt)
- Developed yield prediction model for hybrid corn crops to recommend effective crossing of species (Winner DDS ML Hackathon)
- Developed computer vision pipelines to solve curved text extraction, perspective correction etc (Winner Image Enrichment Challenge)

## IIT Madras / One Fourth Labs / Al4Bharat | Project Intern #DeepLearning

**♀** Chennai, India

MENTORS: DR. PRATYUSH KUMAR, DR. MITESH KHAPRA

2018/Dec - 2019/Mar

- Experienced energetic starting up with the founding team of One Fourth Labs
- · Implemented Efficient and Accurate Scene Text Detector (EAST) for Indian signboard scene text detection
- Developed handwriting recognition system using Convolutional Recurrent Neural Networks
- Set up programming competitions for the PadhAl Deep Learning course

## IIT Madras | Summer Research Fellow #TheoreticalMachineLearning

**♀** Chennai, India

MENTOR: DR. HARISH GURUPRASAD

2018/Jun - 2018/Jul

• Experimented Attention models' impact on neural networks

## NPTEL | Teaching Assistant #SocialNetworks

**♀** Online

COURSE INSTRUCTOR: DR. SUDARSHAN IYENGAR

2017/Dec - 2018/Mar

· Created programming assignments, handled the course forum and set up weekly quizzes for the 'Social Networks' course

#### IIT Ropar | Research Intern #DataScience #NetworkScience

**♀** Ropar, India

MENTOR: DR. SUDARSHAN IYENGAR

2017/Dec – 2018/Jan

• Analyzed GitHub users' role and behaviour in building repositories

## Recent Skills\_\_\_\_\_

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

**Programming** Python, R, LTEX

**Data Science Libraries** Numpy, Pandas, Matplotlib, Seaborn, NetworkX, NLTK, Scikit-Learn, Keras, PyTorch

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

Software Frameworks Git, HTML, CSS, JS, MySQL

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## **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 **Projects**. Indian Signboard Translation - Detection, Classification & Recognition of Indian scene text. 2020 **Deep Learning Projects** - Baby Name Generation, Style Transfer, Image Segmentation etc. 2020 Cryptocurrency Market Prediction - Using Long- and Short-term Time-series network (LSTNet). 2018 **Qualitative Recommendation Engine** - Based on the mapping of user opinions to product features. 2017 Twitter Analytics Dashboard of Topics - Web app developed using Shiny GitHub Social Network Analysis - Exploration of data science repositories 2017 Certifications\_ Futures Thinking Specialization, By Institute for the Future on Coursera 2020 Computer Vision Nanodegree, By Udacity Deep Learning Specialization, By DeepLearning.ai on Coursera 2020 Data Science Summer School, By ACM and IIT Madras at Goa University 2018 Data Analyst Career Track, By DataCamp 2018 2017 Applied Data Science Specialization, By University of Michigan on Coursera 2017 Social Networks Course, By IIT Madras on NPTEL (All India Rank 1) Honors Winner of Image Enrichment Challenge 2 by TCS 2020

2019	Innovation Pride Award by TCS for winning the MFDM AI Hackathon
2019	Special Initiative Award by TCS for the data driven solution to DDS profile hunt
2019	Winner of IIT Madras AI Hackathon for developing the safe route identification system
2019	Gold Medal of Excellence for the best outgoing student of TCE
2018	Mentor of HCL MadurAl Hackathon
2018	Winner of Guvi-MithrAl-HCL AI Open Hackathon for developing the qualitative recommendation app
2017	7 All India Rank 1 in the NPTEL course 'Social Networks'
2017	7 Top 8 in the MHRD Smart India Hackathon for the development of smart evaluation app
2017	Winner of TCE IT Association Hackathon for developing insurance review analytics tool
2016	First place in the TCE-IEEE Demo Task contest for developing IoT based waterbody overflow alert system

# Volunteering \_\_\_\_\_

### Anna University, Thiagarajar College of Engineering

STUDENT REPRESENTATIVE, PLACEMENT REPRESENTATIVE, IT ASSOCIATION MEMBER,

**♀** Madurai, India

Al work group founder, ACM student chapter chair, National Service Scheme member, Rotaract Club member,

Jul-2015 - May-2019

Campus Ambassador for Analytics Vidhya, Shaastra & Pragyan

# **Recreations**.

Follow up Indian Politics, Tech Entrepreneurship, Education
Explore Food Varieties, Coursera, Netflix, Social Media

Physical Activity Workout, Yoga, Badminton

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