

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

· Working on unsupervised and model agnostic identification of adversarial examples in computer vision

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

- 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 | 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 #MachineLearning

♀ 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

GOKUL KARTHIK · CV **JUNE 1, 2021**

Publications Method And System For Forecasting Sales Based On N-Gram Model Gokul Karthik, Avinash Achar, Balaraman Ravindran; Indian Patent Application E-1/52276/2020-MUM Dynamic Bus Arrival Time Prediction: A Temporal Difference Learning Approach Vignesh LKP, Avinash Achar, Gokul Karthik; IJCNN - IEEE WCCI

Online

Oct-2020

Online

Jul-2020

Projects.

- 2020 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
- 2017 GitHub Social Network Analysis Exploration of data science repositories

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)

Honors_

- 2020 Innovation Pride Award for winning the Image Enrichment Challenge 2 by TCS
- 2020 Winner of TCS DDS ML hackathon for developing the corn-hybrid recommendation system
- 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 Winner of Guvi-MithrAI-HCL AI Open Hackathon 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 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 for developing IoT based waterbody overflow alert system

Volunteering_____

Anna University, Thiagarajar College of Engineering

♀ Madurai, India

Al work group founder, ACM student chapter chair, National Service Scheme member, Rotaract Club member, Student representative, Placement representative, IT Association 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