

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

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

Abu Dhabi, UAE

CGPA: - / 4

2021/Aug - 2023/May

• Relevant Coursework: Human and Computer Vision, Machine Learning

Anna University | BTech in Information Technology

♥ TCE, Madurai, India

CGPA: 9.74 / 10; DEPARTMENT RANK: 1 / 130

2015/Jul - 2019/May

· Awarded with Gold Medal of Excellence - Overall Best Outgoing Student of 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

2021/Jan - 2021/Jul

MENTOR: DR. KARTHIK NANDAKUMAR

• Developed a double encoder architecture 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 / AI4Bharat | 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
- Set up programming competitions for the PadhAl Deep Learning course

IIT Madras | Summer Research Fellow

♀ Chennai, India

MENTOR: DR. HARISH GURUPRASAD

2018/Jun - 2018/Jul

· Experimented Attention models' impact on neural networks

2017/Dec - 2018/Mar

Q Online

NPTEL | Teaching Assistant

COURSE INSTRUCTOR: DR. SUDARSHAN IYENGAR

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

IIT Ropar | Research Intern

Q Ropar, India

MENTOR: DR. SUDARSHAN IYENGAR

2017/Dec - 2018/Jan

• Analyzed GitHub users' role and behaviour in building repositories

Skills_____

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

Programming Python, C++, R, MySQL, ŁTFX

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

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

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

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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

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 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

Honors_

- 2021 **Selected** for the startup incubation program by khalifainnovation.ae
- 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-MithrAl-HCL Al 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, 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

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