

Gokul Karthik

ARTIFICIAL INTELLIGENCE & COMPUTER VISION ENTHUSIAST · EXPLORING DIGITAL DEEP TECH ENTREPRENEURSHIP MACHINE LEARNING DEVELOPER @ TCS RESEARCH & INNOVATION · 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, Big Data
- CGPA: 9.74 out of 10 (97.4%); **Department Rank: #1**; Grade: First Class with Distinction

Tamil Nadu State Education Board, Star MHSS

♀ Tuticorin, India

HIGHER SECONDARY SCHOOL

2013/Jul - 2015/Apr

- · Coursework: Tamil, English, Maths, Physics, Chemistry, Computer Science
- Score: 1164 out of 1200 (97%); School Percentile: 95

Tamil Nadu State Education Board, Star MHSS

♀ Tuticorin, India 2011/Jul - 2013/Apr

SECONDARY SCHOOL

- Coursework: Tamil, English, Maths, Science, Social Science
- Score: 486 out of 500 (97.2%); School Percentile: 95

Experience _____

TCS Research & Innovation | Machine Learning Developer #MachineLearning

♀ Chennai, India

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

2019/Apr - Present

- Improving sales prediction models for the retails client using N-Gram models and Deep Neural Networks like RNNs and LSTNet
- Implemented existing SOTA 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 tasks like curved text extraction, perspective correction (Winner Image Enrichment Challenge)

IIT Madras / One Fourth Labs / AI4Bharat | 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

COURSE INSTRUCTOR: DR. SUDARSHAN IYENGAR

2017/Dec - 2018/Mar

Q Online

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

IIT Ropar | Research Intern #DataScience #NetworkScience

P 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, ŁTEX

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

OCTOBER 31, 2020 GOKUL KARTHIK · CV 1

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.

- 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_

- 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 Winner of Image Enrichment Challenge 2 by TCS
- 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 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

AI WORK GROUP FOUNDER, ACM STUDENT CHAPTER CHAIR, NATIONAL SERVICE SCHEME MEMBER, ROTARACT CLUB MEMBER,

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

♀ Madurai, India

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