

# Gokul Karthik

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## SKILLS

### TECHNOLOGIES

- Deep Learning • Computer Vision
- Text Mining • Data Science

### PROGRAMMING

- Python • C++ • R • MySQL •  $\LaTeX$

### PYTHON PACKAGES

- PyTorch • Keras • TensorFlow
- Scikit-Learn • OpenCV • NLTK
- NetworkX • Numpy • Pandas
- Matplotlib • Seaborn

### PLATFORMS

- GCP • AWS • MS Excel • Tableau
- QlikView

### SOFTWARE FRAMEWORKS

- Git • Streamlit • FastAPI • Flask
- HTML • CSS • JS • Shiny • Android

## CERTIFICATIONS

### UDACITY

- Computer Vision Nanodegree

### COURSERA

- GANs Specialization
- Futures Thinking Specialization
- Deep Learning Specialization
- Applied Data Science Specialization

### NPTEL

- Social Networks Course

### DATA CAMP

- Data Analyst Career Track

## MINI PROJECTS

- Standard Deep Learning Projects
- Cryptocurrency Market Prediction
- GitHub Social Network Analysis

## LINKEDIN



## EDUCATION

### MBZUAI | MSc IN COMPUTER VISION

2021/Aug - 2023/May (Expected)

📍 Abu Dhabi, UAE

– Current CGPA: 4 / 4

– Ongoing Project: Improving Multilingual QA with cross-lingual transfer

- Machine Learning • Computer Vision • Geometry for Computer Vision
- Visual Object Detection and Recognition • Trustworthy AI

### ANNA UNIVERSITY | BTech IN INFORMATION TECHNOLOGY

2015/Jul - 2019/May

📍 Madurai, India

– CGPA: 9.74 / 10 | Department Rank: 1 / 130 | Thiagarajar College of Engineering

– Awarded Gold Medal of Excellence (Best Outgoing Student) out of 1000+ students

- Object Oriented Programming • Data Structures and Algorithms • Web Technologies
- Data Base Management System • Software Engineering • Big Data • Data Mining

## EXPERIENCE

### MBZUAI | COMPUTER VISION RESEARCH ASSISTANT

2021/Jan - 2021/Jul

📍 Abu Dhabi, UAE

– Developed a double encoder architecture using Variational Autoencoders and GANs for unsupervised adversarial classification

### TCS RESEARCH & INNOVATION | MACHINE LEARNING DEVELOPER

2019/Apr - 2020/Nov

📍 Chennai, India

– Improved retail sales prediction using N-Gram models and Deep Neural Networks

– Implemented existing SOTA spatio-temporal travel time prediction models

– Developed intelligent employee profile retrieval system using text mining techniques

– Developed yield prediction model for hybrid corn crops

– Developed computer vision pipeline to solve curved text extraction

### IIT MADRAS / ONE FOURTH LABS | DEEP LEARNING PROJECT INTERN

2018/Dec - 2019/Mar

📍 Chennai, India

– Developed robust scene text recognition architecture for Indian languages

– Implemented EAST for Indian signboard scene text detection

– Developed handwriting recognition system using CRNN for answer-script evaluation

## PUBLICATIONS

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

2020 Indian Patent Application: E-1/52276/2020-MUM; First Inventor

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

2020 IJCNN - IEEE WCCI; Third Author

## HONORS

2021 **Winning Team** in the ADAFSA agrithon for visual plant disease diagnosis etc.

2021 **Finished second** in the GITEEX x AI-everything High Flyer challenge

2021 **Selected** for the tech startup incubation program by Khalifa Innovation Center

2020 **Innovation Pride Award** by TCS for winning the Image Enrichment Challenge 2

2019 **Winner** of TCS DDS ML Hackathon for the corn-hybrid recommendation system

2019 **Special Initiative Award** by TCS for the data driven solution to profile hunt

2019 **Winner** of IIT Madras AI Hackathon out of 500+ teams for safe route prediction

2019 **Gold Medal of Excellence** for the best outgoing student of TCE out of 1000+

2018 **Winner** of Guvi-HCL AI Hackathon for 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 on smart evaluation