

# 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

• Indian Signboard Translation  
• Deep Learning Projects: Style Transfer, Image Segmentation etc.  
• Cryptocurrency Market Prediction using LSTM-Net  
• GitHub Social Network Analysis

## LINKEDIN



## EDUCATION

### MBZUAI | MSc IN COMPUTER VISION

2021/Aug - 2023/May

-CGPA: - / 4

• Human and Computer Vision • Machine Learning

📍 Abu Dhabi, UAE

### ANNA UNIVERSITY | BTech IN INFORMATION TECHNOLOGY

2015/Jul - 2019/May

📍 TCE, Madurai, India

-CGPA: 9.74 / 10 | Department Rank: #1 out of 130

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

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

## EXPERIENCE

### MBZUAI | RESEARCH ASSISTANT

2021/Jan - 2021/Jul

📍 Abu Dhabi, UAE

-Developed a double encoder architecture 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 | 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

## 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 **Selected** for the startup incubation program by khalifainnovation.ae

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

2019 **Innovation Pride Award** by TCS for winning the MFDI AI Hackathon

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

2019 **Winner** of IIT Madras AI Hackathon for safest route prediction system

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

2018 **Winner** of Guvi-MithrAI-HCL AI Open Hackathon on text analytics

2017 **All India rank 1** in the NPTEL course 'Social Networks'

2017 **Top 8** in the MHRD Smart India Hackathon on smart evaluation