Gokul Karthik Kumar

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EDUCATION

MBZUAI

MSc Computer Vision

2023/May

CGPA: 3.9/4

→ Machine Learning → Computer Vision

→ Geometry for Computer Vision

→ Visual Object Detection & Recognition

→ Trustworthy AI

ANNA UNIVERSITY

BTECH INFORMATION TECHNOLOGY

2019/May

♀ Madurai, India

CGPA: 9.7/10

→ Object Oriented Programming

→ Data Structures & Algorithms

→ Web Technologies

→ Database Management System

→ Big Data → Data Mining

SKILLS

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Python

✓ Computer Vision

✓ Natural Language Processing

✓ Speech Processing

◆ Data Science

CERTIFICATIONS

UDACITY

Computer Vision Nanodegree

COURSERA

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

NPTEL

Social Networks Course

DATACAMP

Data Analyst Career Track

MINI PROJECTS

Standard Deep Learning Projects

Cryptocurrency Market Prediction

≅ GitHub Social Network Analysis

EXPERIENCE

MICROSOFT RESEARCH | Machine Learning Research Intern

2022/Jun - 2022/Aug

Pengaluru, India

🕈 Abu Dhabi, UAE 🗸 Extensively evaluated the design choices for Text-To-Speech systems in Indian languages

MBZUAI | Machine Learning Research Assistant

2021/Jan - 2021/Jul

Abu Dhabi, UAE

✓ Improved unsupervised adversarial attack classification with double variational autoencoders

TCS RESEARCH | Machine Learning Developer

2019/Apr - 2020/Nov

↑ Chennai, India

✓ Improved retail sales forecasting using N-Gram models and Deep Neural Networks

✓ Implemented state-of-the-art spatio-temporal travel time prediction models

Developed intelligent employee profile retrieval system using text mining techniques

✔ Developed computer vision pipeline to solve curved text extraction

IIT MADRAS | Machine Learning Project Intern

2018/Dec - 2019/Mar

Q Chennai, India

✓ Developed scene text detection and recognition models for Indian languages

Developed handwriting recognition system using CRNN for answer-script evaluation

✓ Set up programming competitions for the PadhAl Deep Learning course

HONORS

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

2021 Finished second in the GITEX 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 Image Enrichment Challenge

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

2019 Special Initiative Award by TCS for 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+ students

2018 Winner of Guvi-HCL AI Hackathon for the qualitative recommendation application

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

PUBLICATIONS

Towards Building Text-To-Speech Systems for the Next Billion Users

♥ Under Review at ICASSP

Multimodal Meme Classification based on Cross-modal Interaction of CLIP features

🛗 2022 👺 Gokul Karthik Kumar, Karthik Nandakumar

♀EMNLP Workshop

Multilingual Contrastive Training for Question-Answering in Low-resource Languages 🛗 2022 🁺 Gokul Karthik Kumar, and others

Dynamic Bus Arrival Time Prediction: A Temporal Difference Learning Approach

• ACL Workshop

Study of Self-supervised Learning Approaches For Object Detection With Transformers

🛗 2022 鞜 Gokul Karthik Kumar, Sahal Shaji Mullappilly, Abhishek Singh Gehlot

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

🛗 2021 👺 Gokul Karthik, Avinash Achar, Balaraman Ravindran

Q US Patent

🛗 2020 🁺 Vignesh LKP, Avinash Achar, Gokul Karthik

QIJCNN

ArXiv