

Krish Sundaresh K

Data Scientist

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SUMMARY

Innovative Data scientist, skilled in building and deploying large scale AI systems. Experience both Research and Industry domains, always uses a mix of both worlds to come up with solutions. Naturally curious and observant of the environment to identify problems and coming up with solutions that can solve the problem and leveraging the use of AI.

EDUCATION

Shiv Nadar University

Chennai

B.Tech. AI & Data Science

August 2023-Present

Courses Offered: Design and Analysis of Algorithms, Data Structures and Algorithms, Deep Learning, Machine Learning, Foundations of Data Science, Descriptive Statistics, Inferential Statistics, Exploratory Data Analysis.

FIITJEE Junior College

Hyderabad

Intermediate MPC

August 2020-August 2022

SKILLS

Programming Languages: C, Python, Java, Javascript.

Libraries: Scikit-learn, Matplotlib, Tensorflow, Pytorch, NLTK, OpenCV, Seaborn

Tools: Git, MySQL, Langchain, Huggingface

Soft Skills: Leadership, Communication, Problem-Solving, Team Management

EXPERIENCE

Indian Institute of Technology Madras

Chennai

Research Intern

May 2025-July 2025

Mentor: Dr. Kaushik Mitra, Department of Electrical Engineering

Researching on applying 3D Gaussian Splatting on SPC data for the task of novel-view synthesis. The key part here is how to model the SPC data suited for the 3D Gaussian Splatting settings. Another topic is experimenting with the concept of Differential Privacy for the task of Gaze estimation using lensless imaging, the key insights to determine will be the performance of the system with Differential Privacy and without it.

Research Centre Imarat, DRDO

Hyderabad

Research Intern

May 2024-July 2024

Mentor: Dr. J V Satyanarayana, Technological Director AI & Embedded Systems

Researched and collaborated with Scientists on the task of Anomaly Detection across various domains, got to explore real world data and how to plan and execute our approaches in this scenario. Worked on Missile data and other data as well for designing and implementing these systems.

PROJECTS

First Shot Unsupervised Anomalous Sound Detection

(Contrastive Learning, Res-Net34, Computer Vision, Patch-Based, Deep Learning)

- Identified the key challenges in Anomaly Sound detection where labels are not present and only normal data is available due to the rare occurrence of anomalies.
- Designed a Patch based CONTRASTIVE Learning model which emphasises on learning all the machine types together and form a tight normal cluster space. During inference time distance of a new test sample will be determined from the normal cluster space and will be determined whether that whether the sample is an anomaly or not.

- The results produced were better than the baseline results which indicates the better performance of the model and it's well generalizability.

AI powered Mental Health Recommendation System

(Natural Language Processing, XG Boost, Text Data, 2 Factor Questionnaire System, Machine Learning)

- Identified the key challeges in Mental Health System in India, where people call it a joke. P don't have time to visit a psychiatrist for consultation.
- Designed a 2 Factor Questionnaire based system, where the population can comfortably st their home and give the answers, our AI bot will analyze the responses and will publish an report, based on the report people can make a decision for consultation.
- The results produced were good with phase-1 giving 91% and phase-2 giving 85%, this sol is one of a kind and can be scaled with the help of a R&D team.

ACHIEVEMENTS

- Ranked **32nd** in **DCASE** world wide challenge.
- Selected for Research Internsip in a competitive Environment at **IIT MADRAS**.
- Certified First Aid Trainer from **Youth Red Cross**.