

# KEDHARNADH KAMATHAM

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## EDUCATION

- **B. Tech in Computer Science and Engineering** | SRM University, Chennai | **CGPA: 9.06/10.** (May'2026)  
**Relevant Coursework:** Object-Oriented Programming, Databases, Discrete Mathematics, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Software Engineering, Design Thinking.

## SKILLS

- **Languages & Skills:** Python | C/C++ | SQL | HTML/CSS | AI/ML | Linux/Unix | DevOps | API Automation.
- **Frameworks & Libraries:** PyPDF2 | Tensor Flow | Keras | Streamlit | React | Selenium.
- **Developer Tools:** AWS Cloud | Oracle Cloud | MySQL | Google Colab | GitHub | Microsoft Office.
- **Soft Skills:** Problem Solving | Innovation | Leadership | Teamwork | Adaptability | Growth Mindset.

## WORK EXPERIENCE

**Machine Learning Intern | NIT TRICHY (On-Site)** (May'2024 – July '2024)

**Deep Learning Model for Skin Cancer Detection and Classification** | [GitHub LINK](#)

- Developed a **Convolutional Neural Network (CNN)** for classifying skin lesions using the **HAM10000 dataset**, achieving over **72% validation accuracy**.
- Employed **data augmentation**, **class balancing**, and **regularization** to enhance model performance and robustness. Tested the model using **10,000+** images.
- Applied **TensorFlow**, **Keras**, on **Google Colab** for model development and computational tasks.

## PROJECT WORK

**Campus Connect - Distributed Messaging System** | [GitHub LINK](#) (April'2025)

- Developed a Unix/Linux based real-time distributed chat platform using TCP/IP WebSockets with ML-based moderation and SQLite full-text search, showcasing expertise in distributed systems, machine learning, and information retrieval.

**Natural Language to SQL Query** | [GitHub LINK](#) (Feb'2025)

- Built a Natural Language to SQL Query system using Azure OpenAI, processing unlimited queries daily with AI-driven validation, security enforcement, and 7+ advanced data visualizations, streamlining database interactions.

**Automated PDF Data Extraction Tool** | [GitHub LINK](#) (Aug'24)

- Automated PDF data extraction to Excel with over 72% accuracy in text recognition, processing 500+ PDFs. This product reduces manual entry time by 80%, enhances business workflows for faster data management.

## ACHIEVEMENTS

**Advent of Code 2024** | **10<sup>th</sup> Rank Globally** (Dec'2024)

- Finished in the **top 0.003%** out of **3,00,000+** participants around the globe in Advent of Code 2024, a **25-day coding marathon** that tested my problem-solving ability and algorithmic skills.

**RAEEUCCI'24 International Conference** | **Best Project Award Winner** (May'2024)

- Secured the **Best Project Award** with my project, **outperforming 280+** participants from across the globe on **emerging technologies**.

**Best Project Award - TechKnow'23, SRMIST** | **Winner & Team Lead** (Apr'2023)

- Led an **8-member team**, developing a prototype for **sustainable electricity generation** in public places using kinetic energy.

**First Lego League - Robotics** | **First Place** (Oct'2017)

- Engineered a **multi-sensor-driven robot** to automate **animal feeding and waste cleaning**, competing among **31,079 teams globally**, enhancing efficiency in animal care and **reducing human intervention** in maintenance tasks.

## POSITIONS OF RESPONSIBILITY

• **Student Coordinator & Organizer** | Bureau of Indian Standards, SRMIST Chapter. (Jul'2023- Present)

• **Technical & Corporate Member** | IEEE, SRMIST 'SB. (Mar'2023-Present)

• **Innovation Space Mentor** | Regional Science Center, Tirupati. (Feb'2017-Present)

## CERTIFICATIONS

[AWS-Machine Learning](#) | [Oracle Cloud Associate](#) | [Google Data Analytics](#) | [Google Technical Support](#) | [Python](#)  
[Java-NPTEL](#) | [Computer Networks-NPTEL](#) | [Database Management Systems](#) | [Goldman Sachs Job Simulation](#)