# J Nithyasree

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## PROFILE

Innovative and results-driven Computer Science and Engineering student with a strong foundation in machine learning, deep learning, and software development. Adopt at problem-solving and eager to apply skills to real world challenges in a collaborative and fast-paced environment. Proven track record of leading projects and achieving academic excellence.

## EDUCATION

**College Of Engineering Guindy, Anna University Chennai** — Tamilnadu, India
*B.E. Computer Science and Engineering* — *Nov. 2021 – Present*
- Relevant Coursework: Machine Learning, Deep Learning, Data Structures, Algorithms, Computer Vision, Operating Systems, Computer Networks, Object Oriented Algorithm And Design, Compiler Design, Big Data, Information Security

**Vidya Jyothi PU College Kolar** — Karnataka, India
*12th Karnataka State Board* — *June 2019 - May 2021*
- 100% (600/600)

**Kendriya Vidyalaya BEML Nagar KGF** — Karnataka, India
*10th CBSE Board* — *April 2018 - March 2019*
- 93% (465/500)

## PROFESSIONAL EXPERIENCE

**Research Intern** — June 2024 – Present
*College Of Engineering Guindy, Anna University* — *Chennai, India*
- Conducting advanced research on deepfake detection using vision transformers on facial organs under Head of the Department of Computer Science and Engineering, Dr.V.Mary Anita Rajam.
- Developed novel techniques to improve deepfake detection accuracy through innovative approaches and cutting-edge technology.

**SDE Intern** — Jul 2024 – Present
*GrapplTech* — *Remote*
- Assisting in the Frontend development of a scalable Hero-section in the web application using HTML, CSS and React Js.
- Collaborated with cross-functional teams to gather requirements and ensure timely delivery of features.

## SKILLS

**Programming Languages**: C/C++, Java, Python, SQL, HTML, CSS, JavaScript, React JS
**Technologies**: React, Deep Learning, Machine Learning, Data Structures and Algorithms, Computer Vision
**Tools**: TensorFlow, Keras, PyTorch, OpenCV, Git, PowerShell, MySQL
**Soft Skills**: Leadership, Communication, Team Collaboration, Problem Solving

## AWARDS & HONORS

- **Code For Queens**: Winner in Code For Queens event, conducted at SYNC'22, an Intra College technical symposium, organized by CSEA – CEG.

- **NAMAKKAL KAVIGNAR ENDOWMENT**: A Certificate Of Merit Given By CEG.

- **Tamilnadu First rank holder** in **TNEA 2021** With **Engineering Cutoff 200/200.**

- **State Topper**: **Karnataka State topper** in **Board PU'21** With **100%.**

## Projects

**Deepfake Detection By Ensembling of VGG16 and EfficientNet on Videos** <span style="float:right">Feb. 2024 – May. 2024</span>
- Enhanced deepfake detection by leveraging advanced techniques such as ensembling, giving 50-50% weightage to VGG16 and EfficientNetB5 models and analyzing images and videos.

**Driver Fatigue Analysis** <span style="float:right">Oct. 2023 – Nov. 2023</span>
- Developed a real-time driver fatigue detection system using Python, OpenCV, and TensorFlow.
- Implemented facial recognition to monitor driver's eyes and facial expressions, utilizing Convolutional Neural Networks (CNNs) for accurate drowsiness prediction.
- Integrated the system to raise timely alerts, enhancing road safety.

**File Segregation and Un-Segregation Automation** <span style="float:right">Mar. 2023 – May. 2023</span>
- Developed a PowerShell script to automate the segregation and unsegregation of files within a folder based on their extensions.
- Enhanced file management efficiency by organizing files into subfolders according to their file types and also reverting the process in Windows 11.

**RailHub: A Railway Management System** <span style="float:right">Mar. 2023 – May. 2023</span>
- Developed RailHub, a comprehensive railway management system, featuring user authentication, ticket booking, train scheduling, passenger data management, analytics, and feedback mechanisms.
- Implemented using HTML, CSS, JavaScript, PHP, and MySQL.

## Leadership & Organizations

**Guindy Times, Director Of TECH** <span style="float:right">Nov. 2021 – Present</span>
*Chennai, India*
- Previously served as **Deputy Director of Tech** for Guindy Times, the official campus magazine of CEG, ACTECH, and SAP.
- Built websites for flagship event **MUGAVARI**: mugavari.guindytimes.com and guindytimes.com.
- Currently guiding junior on website and app building For GT.

**CEG Tech Forum, Workshop Coordinator** <span style="float:right">2022 – 2023</span>
*Chennai, India*
- Coordinated workshops during Kurukshetra, an international techno-management fest conducted annually by CEG in Chennai.

**NSS Unit-10, Volunteer** <span style="float:right">June 2024 – June 2025</span>
*Chennai, India*
- Organized and participated in community service activities, focusing on education and environmental sustainability.

## Languages

**English**: Fluent
**Tamil**: Native
**Hindi**: Fluent
**Kannada**: Limited Working Proficiency

## Hobbies

*Chess*
- Kolar District Winner Under 11.
- Rank 7 (National substitute) in Regional South India Level Conducted By Kendriya Vidyalaya Sangathan.

*Listening Music*
*Photography*
*Solving Rubik's Cube*