

Sunil V

sunilvenkatachalam313@gmail.com
linkedin.com/sunil-v | github.com/SunilV007

EDUCATION

KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY

B.Tech in Artificial Intelligence and Data Science
Expected June 2025 | CGPA: 8.35 / 10.0

HIGHER SECONDARY EDUCATION

Vidhyaa Vikas Matriculation Higher Secondary School, Tirupur
Scored 86.5% in Board Exam

SECONDARY SCHOOL EDUCATION

Vidhyaa Vikas Matriculation Higher Secondary School, Tirupur
Scored 80.6% in Board Exam

SKILLS

PROGRAMMING LANGUAGES

Python • Java • C

WEB DEVELOPMENT

HTML • CSS • JAVASCRIPT • REACT

DATABASES

MySQL • PostgreSQL

CLOUD

AWS • Git • Jenkins • FireBase

LIBRARIES & FRAMEWORKS

Numpy • Pandas • Scikit-Learn
• Tensorflow • REST APIs

AI & ML SKILLS

Machine Learning • Deep Learning
• CNN • Natural Language Processing
• Large Language Models (LLMs)
• Model Deployment

INTERESTS

TECHNICAL

Machine Learning • Generative AI • Large Language Models • Full stack

NON-TECHNICAL

Sports • Editing • Technology Exploration

CERTIFICATIONS

- Advanced Python Programming
- Data Analytics with Python - NPTEL
- Core Java - L&T

PROJECTS

DROWSY DRIVER DETECTION

- Achieved **94% accuracy** in detecting drowsy driver states by building and training a **Convolutional Neural Network (CNN)** model with **TensorFlow** and **Keras**.
- Reduced accident risk by enabling **real-time alerts** when eyes remain closed or yawning is detected for over 3 seconds.
- Ensured real-time performance by applying **image preprocessing**, **model optimization**, and **OpenCV integration** for frame-wise detection in under 50ms.

EV CHARGING APP

- Built a **Flutter** mobile app that enables users to book **EV charging slots**, improving convenience and reducing wait times by **30%**.
- Improved infrastructure efficiency by **15%** using an **SVR-based prediction model** that analyzed charging station usage patterns.
- Ensured smooth user experience under high traffic by conducting **load testing** and **performance monitoring**, scaling the app to support concurrent bookings.

MOCK INTERVIEW ASSIGNMENT [Live Link]

- Designed and deployed a **React-based web application** that helped students improve interview performance, achieving **40% faster practice sessions** compared to traditional prep methods.
- Enhanced realism by implementing **text-to-speech** for AI interviewer questions and **speech-to-text** for user responses, resulting in a **25% increase in engagement**.
- Integrated **Gemini API** for dynamic question generation and real-time feedback; planning a custom **LLM model** to deliver role-specific interview simulations with improved accuracy.

WORK EXPERIENCE

COGNIZANT TECHNOLOGY SOLUTIONS

Feb 2025 - Present | Coimbatore

- Part of the **Non-Functional Testing (NFT)** team, undergoing extensive training on performance testing tools.
- Gained hands-on experience with tools like **LoadRunner**, **JMeter**, and APM tools such as **AppDynamics**, **PerfMon**, etc.
- Learned performance monitoring, script creation, and analysis techniques for enterprise-level application testing.

ZOHO CORPORATION | INTERNSHIP

June 2023 - July 2023 | Chennai

- Gained practical experience in developing and deploying machine learning models using **TensorFlow**, **Scikit-learn**, and **Keras** for real-world applications.
- Explored **Generative AI** applications and worked with **Natural Language Processing (NLP)** techniques for text analysis and automation.
- Gained exposure to **Large Language Models (LLMs)** and their implementation in business applications for content generation and intelligent automation.