

MALINI GOPALAKRISHNAN



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EXPERIENCE

Software Engineer | Surya Informatics Solutions Private Limited, Chennai Sep 2023 - Present

- Experienced Software Engineer with expertise in backend technologies such as **Python, the Django Framework, Pandas, and Machine Learning**, in conjunction with **MySQL** for robust database management, to deliver high-quality projects within specified timelines. Proficient in frontend technologies including **HTML, CSS, and JavaScript**. Skilled in using development environments such as **PyCharm and Visual Studio Code**. Contributions consistently focus on developing projects that provide web-based solutions to practical, real-world challenges.



INTERNSHIP

Python Intern | Shiash Info Solutions Private Limited, Chennai Jan 2023 - April 2023

- Document Summarizer:** Developed a robust Document Summarizer using machine learning techniques to accurately condense large documents, ensuring grammar error-free content and data integrity. Optimized for efficiency and data security, utilized Python, Django Framework for web development, and MySQL for database management.



PROJECTS

1. Aeroponic Crop Growth Optimization

Abstract: This web application entails a comparative analysis of nutrient compositions in crops cultivated through aeroponics versus traditional soil-based agriculture, utilizing the Light Gradient Boosting Machine (LightGBM) algorithm. The objective is to contribute to the development of sustainable and nutrient-rich food production systems, thereby guiding future agricultural practices.

2. Gravity Energy Storage System

Abstract: The Web Application uses advanced data processing concept with MLP Regressor. It's easy to use, allowing smooth data submission and clear communication and integrated power and solid mass data using Cat Boost and Random Forest Regressor for accurate modeling and maintenance. The system promotes sustainability by optimizing resource use and managing energy infrastructure efficiently. It adapts to new technologies, ensuring it remains effective and future-proof.



OBJECTIVE

To leverage my expertise in software development, Web Development, Problem-solving skills, and experience with technologies to contribute to innovative projects and deliver high-quality software solutions. Seeking a challenging position at a dynamic organization where I can grow my technical abilities and collaborate with a talented team to drive the company's technological advancements.



SKILLS

- Python
- Django
- Pandas
- Machine Learning
- MySQL
- Backend Development
- Web Development



ACHIEVEMENTS

- Certification**
Introduction to Machine Learning
Online course - NPTEL
- Journal Publication**
International Journal of Electrical and Computer System Design



EDUCATION

MCA

Periyar Maniammai Institute of Science and Technology, Thanjavur

9.42 (CGPA)

2021-2023

BCA

Bon Secours College for Women, Thanjavur

88%

2018-2021