

MARAN K

marankrishnakumar@gmail.com | +91 951 409 1217 | linkedin.com/Marankrishnakumar
github.com/Marankrishnakumar | leetcode.com/Marankrishnakumar

ABOUT ME

I am a passionate Python Developer with expertise in web application development, AI/ML technologies, and software engineering. I enjoy building efficient and scalable solutions, leveraging Python for web-based applications, automation, and data-driven insights. With a strong foundation in data structures and problem-solving, I am constantly exploring new advancements in AI and ML to enhance my development skills. My goal is to create impactful software solutions that combine innovation and functionality.

EDUCATION

Sri Sairam Engineering College Bachelor of Technology - Artificial Intelligence and Data Science CGPA - 7.34	Chennai, Tamil Nadu Nov 2021 – May 2025
CK School of Practical knowledge 12th Grade - 89	Completed in 2021

TECHNICAL SKILLS

Programming Languages:	Proficient in Python with a foundational understanding of Java
Data Structures:	Skilled in data structures and algorithms, solving complex problems with Python
Object-Oriented Programming:	Intermediate in OOP with Python, demonstrating solid design and coding skills
Database Management:	Proficient in DBMS concepts and SQL for database management
Artificial Intelligence and Machine Learning:	Basic understanding of ML models, data preprocessing, supervised and unsupervised learning, feature engineering, and model evaluation
AI Tools and Libraries:	NumPy, Pandas, Scikit-learn, Matplotlib
Software Development:	Beginner with experience gained through working on several projects, including practical application of development concepts and methodologies

PROJECTS

Sentiment Analysis using Machine Learning (AI/ML-based)

- A simple NLP-based project that classifies text sentiment as Positive, Negative, or Neutral.
- Preprocessed textual data using NLTK and handled data cleaning techniques.
- Implemented TF-IDF vectorization and trained a model using Logistic Regression.
- Deployed as a Flask-based web app for real-time sentiment analysis.

Technologies: Python, Scikit-learn, NLTK, Flask

Food Ordering System (OOps-based)

- Developed a fully-functional food ordering system, allowing users to view restaurants, browse food menus, and manage their cart.
- Applied OOP principles like Encapsulation, Inheritance, and Polymorphism.
- Designed classes like Cart, MainMenu, and FoodManager for modular functionality. Implemented input validation and dynamic cart management.

Technologies: Python, OOP

Web-Based Application Development (Python-Flask)

- Developing a web-based application using Python and its framework Flask to implement key features such as user authentication, dynamic content display, and session management.
- Integrated front-end with HTML and CSS to create responsive, user-friendly interfaces.
- Learned and applied concepts like routing, template rendering, and handling user data to build a functional web application.
- Following an online tutorial to develop a complete web application, further enhancing Python and Flask skills.
- Gaining hands-on experience in database management and form validation for smooth web interactions.

Technologies: Python, Flask, HTML, CSS

LICENSES AND CERTIFICATES

R Programming - Spoken Tutorial at IIT Bombay

Supervised Machine Learning: Regression and Classification - Coursera

Python Basics for Data Science - edX

LANGUAGES

- Tamil (Native)
- English (Proficient)
- Hindi (Basic - Reading and Writing)