

Ganapathy KA

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Objective

Dynamic and detail-oriented Python developer with a deep passion for Artificial Intelligence and Machine Learning. Committed to delivering innovative, high-quality solutions using advanced programming skills. Eager to contribute technical expertise and a proactive mindset to a forward-thinking organization while continuously advancing proficiency in a fast-paced, technology-driven environment.

Education

M Kumarasamy College of Engineering *B.Tech in Artificial Intelligence and Data Science* *Sept 2022 – June 2026*

- Cumulative GPA: 7.6/10.0

Sri Sankara Vidyalayaa *High School*

June 2022

- Percentage: 69/100

Skills

Programming Languages: Python, C/C++, Java, MySQL, HTML/CSS

Tools & Platforms: Git, GitHub, MySQL Workbench, VS Code, PyCharm

Technical Competencies: Data Structures, Algorithms, Machine Learning, Natural Language Processing (NLP)

Projects

KGLearn – Interactive Learning Application

Oct 2022

- Engineered a Python-based GUI application to facilitate interactive learning for kindergarten students, leveraging pandas, numpy, and MySQL.
- Optimized data retrieval and processing, achieving a 40% improvement in efficiency for analytical reporting.

TranslateAuto – AI-Powered Language Translator

May 2023 – Dec 2023

- Developed an AI-driven translation application utilizing sklearn and scipy for efficient NLP, enabling seamless language processing.
- Enhanced translation accuracy through effective dataset integration and collaborative development using Git.

Automated Timetable Generator – AI-Based Scheduling System

Jan 2025 – Present

- Designed an intelligent system for automated timetable scheduling in educational institutions.
- Implemented Genetic Algorithms and constraint programming to minimize scheduling conflicts and optimize resource allocation.

Experience

Hackathon Participant

HTH-Hack The Horizon

- Created a WhatsApp bot to streamline student financial tracking, enhancing accessibility and usability.

Hackathon Participant

11-11 Hackathon

- Recognized as "Code Stormer Elite" for outstanding coding and problem-solving performance.

Coursework

- Data Structures & Algorithms
- Machine Learning
- Discrete Mathematics
- Data Analysis
- Probability & Statistics