SAYEERAM R

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🔗 GitHub - Sayeeram05 (Sayeeram.R) |
🔗 LeetCode - N66XDZZmOM - LeetCode Profile |
🔗 HackerRank - SAYEERAM R (RA2211003010067) - sr61721 | HackerRank |

Summary

Motivated **Software Engineer** with strong proficiency in **Python, Java, and Data Structures**, and hands-on experience in **backend development, full-stack applications, and AI/ML systems**. Skilled in building **RESTful APIs with Flask and SQLAlchemy**, developing **desktop applications with Java Swing and Tkinter**, and designing **scalable database-driven solutions** using MySQL and SQLite. Experienced in applying **Machine Learning, Natural Language Processing (NLP), and OCR pipelines** to real-world projects with frameworks such as **PyTesseract, BART, and TensorFlow**. Demonstrated ability to solve complex problems, deliver impactful solutions, and collaborate effectively within dynamic teams.

Education

B.Tech, Computer Science and Engineering
SRM Institute of Science and Technology – Kattankulathur | 2026
CGPA: 8.51 / 10

Technical Skills

Programming Languages: Python, Java, C, C++, JavaScript, HTML, CSS
Backend & Frameworks: Flask, SQLAlchemy, Java Swing, Tkinter, RESTful API Development
Machine Learning & NLP: NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, NLP (BART, T5, NLTK, spaCy), Computer Vision, OCR (PyTesseract)
Databases: MySQL, SQLite, MySQL Connector
Tools & Platforms: Git, GitHub, VS Code, Jupyter Notebook, Anaconda, Docker, AWS (basic)
Core Competencies: Data Structures & Algorithms, Object-Oriented Programming (OOP), Software Development Lifecycle (SDLC), Debugging & Performance Optimization

Projects

CashBook – Expense Tracker (Java, Swing, MySQL)

- Built a desktop-based expense tracking application with secure login/logout authentication.
- Designed an interactive dashboard for real-time income, expense, and balance tracking.
- Implemented modules for Cash In, Cash Out, Category Management, and Record Deletion.
- Used Java Swing for GUI and MySQL for persistent storage.
- 🔗 GitHub: CashBook

Cross Modality Text Summarizer (Python, OCR, NLP, Java Swing)

- Developed a system to extract and summarize text from images using PyTesseract (OCR) and Transformer-based NLP models (BART, T5).
- Created a user-friendly interface for image upload and automated summarization.
- Applied NumPy and Pandas for efficient text preprocessing.
- 🔗 GitHub: CMTS

Restaurant Recommendation Chatbot (Python, NLP, Neural Networks)

- Designed a chatbot that suggests top 10 restaurants based on user preferences.
- Used NLP techniques to parse user input and applied a Feedforward Neural Network (FFNN) for recommendations.
- Managed restaurant data with structured JSON for fast access and scalability.
- 🔗 GitHub: ChatBot

Certifications

Diploma in Computer Applications (Programming) – SRM Info Tech, Jan 2023
Core Java – SRM Info Tech, Nov 2022

Languages

English: Limited Working Proficiency
Tamil: Native