Surya Prakash Singh

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SUMMARY

Passionate programmer with expertise in Python, C, and SQL, as well as a solid understanding of object-oriented programming (OOP). My experience includes working with essential Python libraries like NumPy, pandas, Tkinter, and Turtle, alongside a strong foundation in data structures and algorithms. I am eager to apply my skills to contribute effectively to a dynamic team and address complex programming challenges.

TECHNICAL SKILLS

Programming Languages & Skills: Python, C, SQL, DSA, OOP

Libraries and Modules: NumPy, Pandas, Tkinter, Turtle

File Format and Handling: CSV, JSON, TXT

Exception Handling: Intermediate proficiency with 'try', 'except', 'else', and 'finally' blocks in Python, enabling effective error management and ensuring robust code execution.

PROJECTS

Snake Game with Turtle Module   Jan 2024

- Developed a Snake game using the Turtle module with a graphical user interface for interactive gameplay.
- Enabled snake movement control through button inputs and integrated functionality to keep track of the highest score.
- Utilized a text file to persistently store and update the highest score, ensuring the score is updated whenever the current score exceeds the previous high score.
- View on GitHub

Password Generation GUI   May 2024

- Created a password generation GUI application using Tkinter, allowing users to store, manage, and generate secure passwords for websites and email accounts.
- Implemented functionality for securely storing and retrieving passwords in JSON format, facilitating easy data management and search capabilities.
- Enhanced the user interface for ease of use.
- View on GitHub

Pomodoro Timer GUI   Feb 2024

- Developed a Pomodoro timer application using Tkinter, which tracks user work hours and break periods.
- Implemented a notification feature that alerts the user 5 seconds before the end of a work session or break, even if the application is minimized or behind other windows.
- Designed the GUI to allow users to mark the completion of each work session and break, providing a visual indication of progress.
- View on GitHub

PDF Summarization Pipeline   Date Range

- Developed a pipeline to automatically summarize PDF documents using LangChain and large language models (LLMs).
- Utilized Python and advanced AI tools to enhance document processing efficiency for handling large datasets.
- Implemented the solution with Streamlit to provide an interactive and user-friendly interface.
- View on GitHub

EDUCATION

SRM Institute of Science & Technology, Ramapuram   Expected 2025

- B.Tech. in Computer Science and Engineering, Artificial Intelligence & Machine Learning
- CGPA: 8.49/10

Kendriya Vidyalaya, BHU   2020

- 12th Grade — CBSE, Varanasi
- Percentage: 72.2%

SOFT SKILLS

Communication, teamwork, and problem-solving; adept at adapting to new challenges.

LANGUAGES

English: Professional Working Proficiency

Hindi: Native Proficiency