

Srinivas Raghav V C

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EDUCATION

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| Indian Institute of Information Technology, Kerala <i>Bachelor of Technology in Computer Science and Engineering; CGPA: 8.12</i> | India Nov 2022 – 2026 |
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TECHNICAL SKILLS

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| Languages: Python, C/C++, Java |
| Frameworks and Libraries: SFML, NumPy, Flask, PyTorch, Pandas, Scikit-learn, Hugging Face Transformers |
| Developer Tools: Git, VS Code |
| Platforms: Linux, Web, Windows |

PROJECTS

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| Building a Large Language Model (From Scratch) <i>Python, PyTorch, Hugging Face</i> | Ongoing - Present |
| <ul style="list-style-type: none">Currently designing a transformer-based architecture inspired by GPT models to understand token relations and generate human-like text.Leveraging Hugging Face’s library to integrate pre-trained models and fine-tune for NLP tasks like text classification and summarization.Preprocessing large-scale text datasets with pandas and NumPy, employing tokenization and causal masking techniques.Implementing attention mechanisms, dropout layers, and regularization techniques to optimize model training and performance.Planning to evaluate model performance using benchmarks like perplexity, TruthfulQA, and MMLU. | |
| Inventory Management System <i>PyQt5, Python</i> | Feb 2024 – Mar 2024 |
| <ul style="list-style-type: none">Designed and developed an Inventory Management System that improved operational efficiency by 25%.Implemented essential functionalities, resulting in a 30% decrease in manual effort for product management.Introduced color-coded indicators for inventory visualization, reducing inventory discrepancies by 20%.Enabled seamless data import/export through CSV files, leading to a significant reduction in data processing time by 40%.Enhanced user experience through customizable themes and intuitive dialog boxes, resulting in a 15% increase in user satisfaction. | |
| MNIST Digit Recognition <i>TensorFlow, Python, Flask, Matplotlib</i> | Sep 2023 – Oct 2023 |
| <ul style="list-style-type: none">Created a web application for digit recognition using the MNIST dataset, achieving an accuracy of 98%.Trained a neural network model with TensorFlow, reducing misclassification rates by 20%.Implemented intuitive features such as a drawing canvas and image upload functionality, resulting in a 25% increase in user engagement.Utilized Flask for backend development and Matplotlib for insightful performance visualization, facilitating model evaluation and improvement. | |
| Mandelbrot Set Visualization <i>C++, SFML</i> | Jul 2023 – Aug 2023 |
| <ul style="list-style-type: none">Developed a high-performance visualization of the Mandelbrot Set, enabling users to explore intricate fractal patterns effortlessly.Optimized rendering algorithms for smooth navigation and rapid zooming, resulting in a 50% decrease in rendering time. | |
| Maze Solver using BFS <i>OpenCV, Python</i> | Mar 2023 – Apr 2023 |
| <ul style="list-style-type: none">Developed a maze-solving algorithm based on Breadth-First Search (BFS) to find the shortest path through complex mazes.Utilized OpenCV for real-time visualization and color-coded path highlighting, resulting in a 40% improvement in pathfinding efficiency. | |