Guruprasath Manika Rameshbabu

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Education

- **Bachelor of Technology in Artificial Intelligence Engineering** *2022-2026*
  Amrita Vishwa Vidyapeetham Chennai, India
  - CPGA: 8.82/10.00

- **Higher Secondary Education** *2021 July*
  SRM public school Thuraiyur , India
  - Grade: 85.2%

Projects

- **Podcast AI: Automated Podcast Creation**
  - Developed an AI-powered platform that transforms written content into engaging podcast episodes.
  - Integrated Mistral 7b for advanced content generation and VITS for state-of-the-art audio synthesis.
  - Designed a modular architecture enabling customizable podcast workflows and content personalization.

- **Digitalization of Physical Bank Forms**
  - Built an end-to-end form digitization pipeline using OCR and data extraction techniques to convert scanned bank forms into structured digital data, reducing manual data entry efforts by up to 80%
  - Achieved this by utilizing YOLOv8 and PaddleOCR v4, reaching over 95% OCR accuracy and 90%+ precision in extracting key fields such as names, account numbers, and IFSC codes.
  - Deployed a Flask-based web application that allows users to upload scanned forms and receive structured outputs in under 5 seconds per form.

- **Dictionary Application**
  - Developed a command-line dictionary application in C with full CRUD functionality and custom file parsing, enabling efficient management of 1,000+ dictionary entries.
  - Developed an interactive terminal interface using the ncurses library, enabling real-time keyboard navigation and dynamic input handling for a smooth and responsive user experience.
  - Implemented robust file update mechanisms and modularized codebase, ensuring 100% data integrity and maintainability across display, search, and file operations.

Patents and Publications

C=Conference, J=Journal, P=Patent, S=In Submission, T=Thesis

[C.1] (2024). **A Novel Elliptic Curve-Based Color Image Cryptosystem Using Transcendental Number**. Submitted to 2023 Global Conference on Information Technologies and Communications (GCITC)

Skills

- **Programming Languages and :** Python, C, MySQL, HTML, CSS, Java
- **Frameworks:** Spring Boot, ReactJS, Tailwind CSS, flask
- **Additional Technologies:** Git, Github ,VS Code
- **Soft skill:** Adaptability, Collaboration, Problem-Solving, Strong Communication, Time Management

Leadership Experience

Office Bearer *2024 - 2025*
Neuronix AI Club, Amrita Vishwa Vidyapeetham [🌐]

- Led the organization and execution of technical events including coding contests and workshops, aimed at enhancing students' programming skills.