N Lohith Surya Raj

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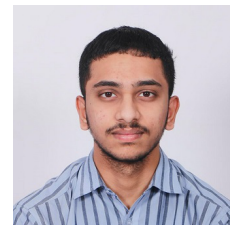
EDUCATION

PES University — Bangalore, India
Bachelor of Technology - Computer Science; CGPA: 7.94 — *July 2021 - June 2025*

SKILLS SUMMARY

- **Languages**: Python, C, JavaScript, SQL, JAVA, Dart, HTML, CSS, R,Go
- **Frameworks**: Scikit, TensorFlow, NodeJS, ReactJS, NextJS, Flutter, Tailwind
- **Platforms**: Linux, Web, Windows, Docker, Kubernetes, AWS

EXPERIENCE

BoltCode — Bangalore, India
Software Engineer Intern — *September 2023 - January 2024*
  - **React and Tailwind Developement**: Executed pages in alignment with provided designs.
  - **API Testing and Integrating**: Integrated the API's to the pages designed and tested them in Postman before the use
  - **Leadership**: Led and Supervised a team of front-end developers to ensure the quality of code and flow of the work

Teaching Assistant — Bangalore, India
Data Structures and Applications — *August. 2024 – Present*
  - **Responsibilities**: Creating Assignments in the form of contests on the HackerRank platform and addressing their questions and helping them understand the problems

Minerva PESU — Bangalore India
Front-end Developer — *June 2023 - Present*
  - **Frontend Developer**: Build few pages for the website where users can keep up to date with all the activities and events of the club. Journalists of the club publish insightful articles on the website. https://minverapesu.vercel.app/

PROJECTS

- **Calories Burnt Prediction**:
  * Built a predictive model using XGBoost Regressor to estimate caloric expenditure from exercise duration, heart rate, and body temperature.
  * Achieved an absolute mean error (MAE) of 1.48, demonstrating the model's accuracy in predicting caloric expenditure.

- **RAG Chat-bot for Document Comparison** :
  * Engineered a RAG Chat-bot capable of analyzing and providing insights on any PDF documents, including detailed comparative analysis or individual document insights
  * Conducted document parsing and text extraction using PDF parsing libraries and generated embeddings for document content with a HuggingFace model.
  * Implemented query engine and integrated a local instance of an LLM to provide contextual insights through a user-friendly interface.

- **Movie Recommender System**:
  * Developed a sophisticated movie recommender system using a dataset of 5000 movies from Kaggle, including extensive data preprocessing with Pandas to structure a DataFrame with movie IDs, titles, and tags.
  * Utilized the Bag of Words method to transform tags into 2D vectors and implemented a recommendation algorithm based on nearest vector calculations for personalized movie suggestions.

- **Playlist Generator**:
  * Built a web application using HTML,CSS and JavaScript, integrating OpenAI API to generate themed music playlists and create custom cover images, enhancing user experience with personalized content. .
  * Implemented Spotify API for secure user authentication and seamless playlist management, allowing users to add generated playlists directly to their accounts
- **Bank Management System**:
  * Customer Account Banking Management System using C, handling account creation, updates, transaction, and deletions with file handling for persistent data storage
  * Ensured security by implementing input validation, basic password protection, and encryption techniques

HONORS AND AWARDS

- **Runner Up in Ingenious Hackathon (2021)** : An exercise Monitor which helps through your exercise by telling the mistakes and alerts you when an exercise is over done or done wrong.
- **Runner Up in Kalpana Hack for Humanity (2023)** : A digital system in Health sector which helps in avoiding falsifying any medical data and helps in inventory management of the medicine inventory.