

# Gnana Pragadeesh K

📍 Chennai, India   ✉ gnanapragadeeshoffcl@gmail.com   📞 7358013826   🌐 in/gnana-pragadeesh

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## SUMMARY

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Pre-final year engineering student at SRM Easwari Engineering College with a strong foundation in Machine Learning and Backend Development. Passionate about leveraging my technical skills and theoretical knowledge to solve real-world problems and seeking an internship to further enhance my expertise in model development and application development.

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## EDUCATION

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### Bachelor of Technology in Information Technology

SRM Easwari Engineering College • Chennai, TN • 2026

### High School

NSN group of schools • Chennai, TN • 2022

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## SKILLS

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Languages and Technologies : Java, Python, JavaScript, SQL, Git, Github, Docker, Postman, Swagger, RESTful API, MySQL, MongoDB

Frameworks and Libraries : Spring Boot, Hibernate, PyTorch, Pandas, NumPy, OpenCV, Matplotlib, Seaborn

Language Known : Tamil, English, Hindi

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## PROJECTS

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### Nutrition RAG Pipeline

This RAG pipeline, built with PyTorch and utilizing the MPNet Base v2 embedding model, extracts key nutritional information from PDF documents. Through this project, I gained hands-on experience in implementing document retrieval systems, fine-tuning embeddings for information extraction, and optimizing the pipeline for efficient query processing. The project deepened my understanding of integrating NLP techniques with document parsing, providing valuable insights into working with large, unstructured datasets for practical applications.

### Grade Management Application

- The application helps professors to send the grades of a particular assessment of students to their respective emails in a formatted pdf .Python was used to develop the project , using frameworks such as Tkinter for the user interface and Pandas, SMTP, fpdf modules being used for backend. This project was delivered to our college .

### Spring Boot Blog Application

- A side project where I handled the end-to-end development of the backend, frontend, and database connectivity. The backend was built with Spring Boot, and the frontend used HTML, Bootstrap CSS, and Thymeleaf, following the MVC architecture. The application included enterprise features such as authentication, password recovery, user and post management. Key functionalities included creating, editing, deleting, and viewing blog posts, commenting, and managing user profiles, with database connectivity using JPA and Hibernate.
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## CERTIFICATIONS

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### PyTorch for Deep Learning

Udemy • 2024

- Learnt PyTorch framework, Computer Vision, CNNs, Transfer Learning, Model Deployment

### Introduction to MongoDB

MongoDB University • 2024

- Gained foundational understanding about NoSQL databases , MongoDB Atlas and Compass
- Learnt about Clusters, Query Document , MongoDB CRUD Operations

### Full Stack Java Development

Udemy • 2023

- Learnt Object Oriented Programming, Core Java, Spring Boot , Hibernate, JPA, JSP, Servlets, JWT, Spring Security and gained foundational understanding about JavaScript, NodeJS and React
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