

# Keerthana R

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## Skills

- **Languages:** Python, C, C++, SQL, Java, HTML, CSS, JavaScript.
- **Frameworks:** Django, ReactJS, Next.js, Flask, Bootstrap, Node.js, TensorFlow, PyTorch.
- **Tools:** Git, Google APIs, Docker, PostgreSQL, LangChain, MySQL, Tableau, SQLite, OpenCV, OpenGL, Gradio, Scikit-learn, Pandas, Numpy, Supabase, Prisma, FAISS, Spreadsheets.
- **Platforms:** Google Cloud Platform, AWS, Jupyter Notebook, Visual Studio Code, Google Colab, Firebase Studio, Vercel, Render, Netlify, Salesforce, Figma.
- **Soft Skills:** Effective Communication, Problem Solving, Leadership, Time-Management, Team Work.

## Education

**Dr. Ambedkar Institute of Technology, Bangalore, India | Dec 2022 - Aug 2026**

*Bachelors in Computer Science and Engineering; CGPA: 8.55*

Relevant Course-work: Microservice Architecture, Data Structures and Algorithms, C Programming, Microcontrollers and Embedded Systems, Cloud Computing, Software Engineering, Artificial Intelligence and Machine Learning, Applied Linear Algebra, Computer Graphics and Image Processing, Computer Networks, Operating Systems, Research Methodology, Analysis and Design of Algorithms, User Interface Design.

**CMR National PU College, Bangalore, India | Jun 2020 - Aug 2022**

*PCMC; Percentage: 88%*

Relevant Course-work: Object Oriented Programming Concepts, C++ Programming, HTML, CSS, Python, SQL, Computer systems.

## Projects

**Algorithm Visualizer Application**

Nov 2024 – Jul 2025

- Built a scalable ReactJS + Django application and SVG for dynamic visualization rendering.
- To visualize algorithms such as Bubble Sort, Merge Sort and Dijkstra's path-finding algorithm.
- Deployed on Vercel (frontend) and Render (backend). Collaborated with a team to optimize performance for complex visualizations.

<https://algoviz-xx.vercel.app/>

**Smart Surveillance System for Public Mental Well-being**

Jun 2025 - Present

- Built a Smart Surveillance System using Python, FastAPI and four trained ML models with a next.js frontend.
- Illustrates identified trends in the footage and issues system alerts when anomalies are detected.
- Optimized to process footage on local CPU to ensure that privacy is enforced.

**Teacher's Assistant Application**

Apr 2025 - Present

- Developed using Next.js, a JavaScript frontend framework along with Tailwind CSS to style the frontend.
- The backend implements a variety of technologies and APIs such as Gemini API and Google Forms API.
- Leverages PostgreSQL for efficient relational database queries and Prisma ORM for maintainable backend code.

<https://teacher-assistant-1.vercel.app/>

## Certificates

**IBM: RAG and Agentic AI Professional Certificate**

Sept 2025

Skills: LangChain, LangGraph, FAISS, Agentic Systems, RAG, Prompt Engineering, Vector Databases, Gradio.

**NPTEL: Cloud Computing Course Certificate**

May 2025

Skills: GCP, Cloud Security, Cloud Storage, MapReduce, Virtualization, AWS, Data Centre Design, Microsoft Azure.

**Google: Data Analytics Professional Certificate**

May 2024

Skills: Pivot Tables, Google BigQuery, R Programming Language, Relational Databases, Spreadsheets, Tableau, Data Visualization, SQL.

**NPTEL: Introduction to Large Language Models Course Certificate**

Nov 2025

Skills: NLP, Statistical Language Models, Neural Language Models, Transformers.

## Additional Activities

**Google Developer Groups: Solution Challenge Certificate of Achievement**

Dec 2022

**Hack2skill Agentic AI Day Volunteer**

July 2025