Keerthana R

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Skills

- **Languages**: Java, Python, SQL, C, C++, HTML, CSS, JavaScript, Typescript.
- **Frameworks**: Django, React.js, Next.js, Flask, Bootstrap, Node.js, TensorFlow, PyTorch, Spring, Flutter, Angular.
- **Tools**: LangChain, PostgreSQL, MySQL, Git, Google APIs, Spreadsheets, PowerPoint, Tableau, SQLite, OpenCV, Gradio, Scikit-learn, Pandas, Numpy, Transformers, Supabase, Prisma, FIASS, GPT.
- **Platforms**: Google Cloud Platform, AWS, PyCharm, 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: Data Structures and Algorithms, 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 - Present**
- Built a scalable ReactJS + Django application and SVG for dynamic rendering.
- To visualize algorithms such as Bubble Sort, Merge Sort and Dijkstra's.
- Deployed on Vercel (frontend) and Render (backend). Collaborated with a team to optimize performance for complex visualizations.

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

Attendance Marking System Using Face Recognition   **Nov 2024 – Jan 2025**
- Built a system that marks a student's attendance using Face Recognition.
- Consists a transformer model that alerts the user to remove their mask if they are wearing one.
- Integrated real-time video capture in web UI and optimized Python OpenCV pipeline for low-latency processing.

Teacher's Assistant Application   **Apr 2025 - Present**
- Used 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

NPTEL: Cloud Computing Course Certificate   **May 2025**
Skills: GCP, Cloud Security, Cloud Storage, MapReduce, Virtualization, AWS, Data Centre Design, Microsoft Azure.

Google: Data Analytics Course Certificate   **May 2024**
Skills: Pivot Tables, Google BigQuery, R Programming Language, Relational Databases, Spreadsheets, Tableau, Data Visualization, SQL.

Google: Project IDX Workshop Certificate   **Oct 2024**
Skills: Project IDX (Now Firebase Studios) tools.

BRAINOVISION: Java Full Stack using ReactJS and AI Certificate   **Jan 2025**
Skills: JavaScript, Java, Swing, JDBC, Servlets, Collection and Frameworks, Spring Framework, Hibernate.

Additional Activities

Google Developer Groups: Solution Challenge Certificate of Achievement   **Dec 2022**
Hack2skill Agentic AI Day Volunteer   **July 2025**