

# BHUVANA HAREENDRAN

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B.Tech CSE – Cloud Computing | 2027

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## SUMMARY

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Data-driven Computer Science undergraduate specializing in Cloud Computing with strong analytical, problem-solving, and program execution skills. Experienced in hypothesis-driven experimentation, operational analysis, and building dashboards using Excel, SQL, Python, and Power BI to support strategic decision-making. Proven ability to collaborate with cross-functional stakeholders, present insights to leadership, and drive process improvements in fast-paced, startup-like environments.

## EDUCATION

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<b>SRM University</b>	2027
B.Tech- Computer Science and Engineering (Cloud Computing)	CGPA - 9.78
<b>Balalok Matriculation Higher Secondary School</b>	2023
Class XII – Tamil Nadu Stateboard   Bipc	Percentage - 90.1%
<b>Balalok Matriculation Higher Secondary School</b>	2021
Class X – Tamil Nadu Stateboard   Bipc	Percentage - 92%

## EXPERIENCE

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**Research Intern | IIT-R Internship Certificate** Sept 2024 – Dec 2024

**IIT – Roorkie | Stipend-based Remote Internship**

- Supported academic research in Sanskrit language through data documentation, analytical interpretation, and structured reporting
- Created publication-ready LaTeX documents, ensuring precision and attention to detail
- Converted abstract mathematical concepts into clear visual models and diagrams using AutoCAD
- Demonstrated ownership of processes, documentation standards, and cross-team communication

## PROJECTS

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**Real-Time Election Voting System | Project Screenshots**

Aug 2025 – Oct 2025

- Built and managed a real-time data processing pipeline using Kafka and Spark Streaming to support high-frequency event analysis
- Designed automated data ingestion and transformation workflows, improving system reliability and decision latency
- Developed real-time analytical dashboards using Streamlit to support monitoring and operational decision-making
- Coordinated end-to-end project execution, ensuring alignment with system objectives and timelines

**Designing Intelligent Route Finding System using A\* Search Algorithm**

Mar 2025 – Apr 2025

- Designed and optimized an algorithmic path-finding system using A\* search, reducing route computation time by ~40% through heuristic optimization
- Processed and analyzed large structured datasets representing city-scale maps
- Built data visualizations using Leaflet.js and OpenStreetMap to present outputs in a clear, consumable format

**Calorify – Nutrition Tracking Website**

Aug 2025

- Developed a data-driven web platform to track, analyze, and visualize user nutrition data
- Conducted basic user behavior analysis to identify trends and improve feature prioritization
- Designed dashboards to support data-backed insights and product iteration
- Implemented a rule-based chatbot to enhance user engagement and interaction

## RESEARCH EXPERIENCE

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### Geometry of Brahmagupta

Sept 2024 – Dec 2024

- Conducted structured research involving data interpretation and mathematical modeling
- Translated ancient mathematical text in Sanskrit into modern analytical frameworks using AutoCAD
- Produced well-documented, review-ready research outputs using LaTeX

## SKILLS

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- Programming Languages:** Java | Python | C++
- Frontend:** React | JavaScript | HTML | CSS
- Data & Analytics:** SQL | Excel | Power BI | Pandas | NumPy | Matplotlib
- Design and Simulation Tools:** Canva | Figma
- Tools and Technologies:** Linux commands | AWS | VS Code | Docker
- Areas of Interest:** Data Analytics | Data Science | Cloud Computing
- Collaboration & Program Skills:** Presentation & Communication | Project Execution

## VOLUNTEERING

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### Samskrita Bharati

#### Volunteer | Research and Education

- Contributed to the promotion and preservation of Sanskrit through educational workshops and outreach programs.
- Assisted in organizing events, conducting basic language sessions, and managing digital content for awareness campaigns.
- Demonstrated teamwork, communication, and organizational skills

## EXTRA CURRICULAR ACTIVITIES

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### Mentorship Program

July 2025 – July 2025

- Organized and conducted a 5-day youth workshop on Science and Technology in Sanskrit for college students via interactive sessions, cultural event, and personal development activities.
- Managed planning, logistics, and stakeholder communication

### Hack the Horizon 2.0 Hackathon | Certificate

Aug 2025

#### Participant

- Built Calorify, a website to track daily calorie intake and manage nutrition.
- Integrated a chatbot for personalized dietary guidance and meal logging.
- Showcased rapid prototyping, problem-solving and teamwork in a 24-hour hackathon.

## LANGUAGE

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- English [Professional]
- Tamil [Native]
- Malayalam [Native]
- Sanskrit [Native]
- Hindi [Fundamental]