# Vaisagh Suresh

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## Education

Bachelor of Science in Computer Science, Mathematics, and Statistics  
Christ (Deemed to be University), Bengaluru | 2022 - 2025

Higher Secondary and Secondary Education  
Shanthinikethan Public School, Irinjalakuda  
- Grade 11 (2020): Achieved an academic distinction with 90.1%  
- Grade 12 (2022): Maintained high academic performance with 88.6%

## Skills

Technical Proficiencies:  
- Programming Languages: Expertise in Web Development, Python, R, JavaScript, MySQL, MERN Stack, and PHP.  
- Data Analytics and Modelling: Proficient in Statistical Modelling, Web Scraping, and Regression Analysis.  
- Development Tools and Platforms: Skilled in Git, GitHub, Vercel, TailwindCSS, Framer Motion, Canva, and Graphic Designing.

Soft Skills:  
- Advanced Problem-Solving and Analytical Reasoning.  
- Project Leadership and Strategic Execution.  
- Effective Team Collaboration and Communication.  
- Rapid Adaptation to Dynamic Project Requirements.

## Research and Projects

Optimization of Bengaluru Metro Lines Using Spectral Graph Theory | 2024  
- Leveraged advanced concepts in linear algebra and spectral graph theory to optimize metro networks and identify critical transit nodes.  
- Formulated strategies to enhance commuter efficiency by pinpointing influential intersections and recommending optimal paths.  
- Engineered a solution using Dijkstra’s algorithm to determine minimal transit routes.  
- Conducted comprehensive data integration and analysis by utilizing publicly available datasets to construct metro maps and validate findings.

Web-Based Doctor Appointment Management System | 2024  
- Designed a dynamic web application for streamlined scheduling and management of medical appointments, utilizing PHP, MySQL, HTML, CSS, and JavaScript.  
- Delivered a user-centric interface with specialized dashboards for patients and healthcare professionals.  
- Implemented database optimization strategies to ensure high-performance query execution.

Official Fest Website for Convergence 2024 | 2023  
- Developed and maintained the official digital platform for an intercollegiate Mathematics Department Fest at Christ University.  
- Served as the Tech Committee Lead, overseeing website functionality, event coordination, and technical support during the fest.  
- Employed HTML, CSS, and JavaScript to build a user-friendly interface that facilitated event registration and payment integration.

## Professional Experience

Graphics and Design Intern  
Center for Artificial Intelligence, Christ University | 2023 - Present  
- Conceptualized and produced compelling visual assets, including posters, banners, and standees, for academic and promotional events.  
- Played a pivotal role in crafting bi-monthly newsletters, utilizing tools such as Canva and Figma.  
- Collaborated effectively within a design team to deliver cohesive and institutionally aligned branding solutions.

## Recognitions and Extracurricular Achievements

Battle of Bands (Keyboardist):  
- 2nd Runners-up: Represented Christ University at IIM Indore’s Atharv Ranbhoomi 2023.  
- 2nd Runners-up: Excelled at the intercollegiate fest hosted by MCC College.  
- 2nd Runners-up: Achieved recognition at Jain University’s cultural competition.

## Areas of Interest

- Music Composition and Performance (Keyboardist).  
- Exploratory Data Analysis and IoT System Development.  
- Advanced Software Engineering and Algorithm Optimization.