

# Sarang Shastry

Researcher



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[Bold Profile](#)

Computer science graduate with interests in theoretical computer science, formal methods, and cryptography. Two years of teaching experience and currently working on formalizing polynomial-time cryptographic adversaries using Coq.



## Research Experience

### Research Collaboration with Prof. Mukesh Tiwari.

Swansea University, Wales, UK.

Formal Methods and Cryptography.

Jan-2026 (ongoing)

- Working on **formalizing polynomial-time cryptographic adversaries** using **RCoq** (Interactive Theorem Prover).
- Modeling adversarial behavior under polynomial-time constraints within a proof assistant.
- Studying foundational links between **cryptography, computational complexity, and interactive theorem proving**.



## Experience

### Faculty Member

Divysrijan IAS Academy, Jabalpur

- Emphasize teaching responsibilities.
- Show mentoring and exam prep guidance.
- Assessed student performance through a variety of evaluation methods, providing constructive feedback for continuous improvement.
- Created assignments to encourage student learning and develop communication skills and higher-order thinking.

### Assistant Professor

Thevanai Ammal College for Women, Villupuram

- Designed and implemented engaging lesson plans to improve student learning.
- Utilized interactive technologies, like PowerPoint and Flipped Classrooms.
- Created materials and exercises to illustrate application of course concepts.

2024-02 - 2025-08

2023-07 - 2024-01

- Mentored students and communicated internship and employment opportunities.



## Education

2023-05



### Master of Computer Applications: Computer Science And Applications

Gyan Ganga College of Technology - Jabalpur

GPA: 8.58/10

2021-01



### Bachelor of Computer Applications: Computer Science And Applications

Nachiketa College Of Computer Science Commerce And Advance Technology - Jabalpur

GPA: 61%



## Skills



- Programming: C++Python, Java, R



- Functional Programming : Haskell, Ocaml



- Formal Verification tools: Rcoq, LEAN, NuSMV.



- Web Development: HTML, CSS, JavaScript



- Databases: SQL (Advanced), SQL Server Programming



## Projects



**Sales Analysis using Tableau:** Developed interactive dashboards to analyze sales trends and customer behavior using advanced visualization techniques.

**Customer Churn Prediction:** Built a predictive model using logistic regression to analyze churn patterns, achieving 85% accuracy with Python and Scikit-learn.

**SQL Data Analysis:** Performed complex SQL queries to extract business insights from a large dataset using joins, sub-queries, and window functions.



## Certifications

2024-09



- Tableau Training: Scored 83%

2024-08



- SQL Training: Scored 94%

2024-10



- Machine Learning with Python: Scored 78%

2024-07



- Excel Training: Scored 94%



## Workshop



### LeanLang for Programmers

One-day workshop on LEAN Interactive Theorem Prover - Dec '25

Indian Institute of Science (IISc), Bangalore

Conducted by Prof. Siddhartha Gadgil