

KARTHICK LOGANATHAN

STUDENT AT SRMIST



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ABOUT ME

I am a passionate student with a strong interest in materials science, computational simulations, and spintronics. Skilled in Python, DFT simulations, and Thin-film deposition techniques, I thrive in research environments that challenge me to analyze and develop innovative solutions. With a keen eye for detail and a commitment to scientific exploration, I am always eager to learn and contribute to advancements in physics.

EDUCATION

2022 - 2026

Bachelor of Technology (Nanotechnology)

SRMIST

SGPA

8.4/10

RESEARCH AND EDUCATIONAL EXPERIENCE

Thin Film Deposition and Characterization

- Conducted a study on Polymer degradation with TiO₂ thinfilms
- Presented findings at ICONN 2025.

Spintronics and Density Functional Theory (DFT) Simulations

- Currently simulating Heusler alloy properties to enhance spin transfer torque efficiency in magnetic tunnel junctions (MTJs).
- Working under Dr. Banerjee at MAVENs, SRMIST, utilizing DFT-based computational methods for material analysis.

SKILLS

- Scientific Writing & Presentation
- Collaborative Research & Teamwork
- Programming & Data Analysis: Python
- Various thinfilm deposition techniques
- Materials Characterization: XRD, SEM, AFM, etc.
- Computational & Simulation Tools: DFT simulations

REFERENCES

Dr.P.Malar

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