Maharshi Shastri Email: maharshishastri12@gmail.com | Phone: +91 7208622619 | Location: Mumbai Metropolitan Region | GitHub: https://github.com/MaharshiShastri| LinkedIn: https://www.linkedin.com/in/maharshi-shastri-317682285/

Career Objective

Aspiring to pursue advanced studies (Master's and PhD) in Quantum Technology while driving innovation as an entrepreneur in quantum, defense, and infrastructure technologies. My goal is to leverage quantum advancements to accelerate human knowledge and solve global challenges.

Professional Experience

Hardware Engineering Intern
Shree L.R. Tiwari College of Engineering | July 2024

- Designed and verified hardware components using VLSI design principles.
- Collaborated on circuit creation and verification via simulation tools and Krypton boards.

Education

Bachelor of Engineering (B.E.) in Computer Science & Engineering with Honors in AI/ML
University of Mumbai | 2022 – 2026 | CGPA: 7.0/10

Cambridge International AS & A Level
RBK International School | 2022 | Percentage: 76.67%

Technical Skills

- Programming Languages: Python, C++, C
- Tools & Technologies: REST APIs, Amazon Web Services (AWS), OpenCV, Intel Quartus
- Specializations: Machine Learning, Artificial Intelligence, Internet of Things (IoT), Embedded Systems
- Other Skills: VHDL, Computer Vision, SQL, German (Proficiency), English (Proficiency)

Certifications & Training

- Digital System Design & Verification | IIT-Bombay | June 2024 - Developed and simulated circuits using Intel Quartus and verified them on Krypton boards.

- AWS Game Development Certification | Amazon Web Services | February 2024

- Postman API Fundamentals | Postman API | February 2024

- NLP, ChatGPT, and Prompt Engineering | ExcelR | Dec 2023 – Jan 2024

- Cloud Computing Certification | ExcelR | December 2023

Projects

- Automation Systems:

- Developed Python scripts for extracting and processing data from websites, calculating KPIs, and generating dashboards in HTML/PDF format.
- Automated tasks with scheduling tools, ensuring efficient and error-free data management.
- View Project: https://github.com/MaharshiShastri/Automation-Project

- Movie Recommendation System:
  - Implemented a personalized recommendation engine using C++ and collaborative filtering.
  - Delivered a ranked list of movies with RMSE metrics for performance evaluation.
  - View Project: https://github.com/MaharshiShastri/Movie-Recommendation-System

- Drone Delivery System:
  - Designed an efficient flight path using the Haversine algorithm.
  - Integrated a unique color-code system for high-rise delivery identification.
  - Implemented camera-based facial recognition for secure delivery verification.
  - View Project: https://github.com/Ujjvalshrivastav/Delivery-system

- Sports Robot (Neuroevolution):
  - Combined neuroevolution and reinforcement learning for strategy creation and optimization.
  - Developed an open-source bot for simulating adaptive gameplay strategies.
  - View Project: https://github.com/MaharshiShastri/neuroevolutionbot

Leadership & Extracurricular Activities

- Technical Head (2024 – 2025): Led the Student Council at Shree L.R. Tiwari College of Engineering, driving technical initiatives and fostering innovation.

- Technical Lead: AI/ML Club at SLRTCE, overseeing projects and mentoring peers.

Achievements

- Secured Award of Excellence from the International Schools Association for achieving 3rd position in Cambridge International A-Levels (2021–2022).

Portfolio

- GitHub: https://github.com/MaharshiShastri
- CodeChef: https://www.codechef.com/users/maharshishastr

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Personal Statement:

From my earliest fascination with computers' ability to perform complex calculations within milliseconds to my current pursuit of a Bachelor of Engineering in Computer Engineering with honors in AI/ML, my journey has been one of relentless curiosity and a drive to innovate. My academic, technical, and leadership experiences have shaped my aspirations to explore and contribute to cutting-edge fields like AI, quantum technologies, and computational sciences.

I began my journey due to an immense interest in getting the feeling of how computers had that kind of processing mechanism inside to process data rapidly. My fourth semester experience really helped me evolve once I attended a workshop on HPC. The certification in HPC did open my eyes to specialize on the potential of computing technique in special ways. Inspired, I dived into the world of AI/ML, exploring algorithms and optimization strategies, and soon discovered quantum computing, which represented a transformative intersection of computation and physics.

I applied these skills through projects such as developing a neuroevolution-based robot that used evolutionary algorithms to learn and adapt autonomously. This led me to refine my technical expertise and develop leadership and collaboration skills. I am further pursuing certifications in CUDA programming (ongoing) and Digital System Design to strengthen my foundation in computation and hardware design.

Beyond academics, my role as the Technical Head of the Student Council has given me the opportunity to organize technical workshops and foster collaboration among students. This experience, along with my participation in community initiatives such as Unnat Bharat Abhiyan, underscores my commitment to using technology for societal impact.

As someone keenly interested in research and innovation, I am deeply inspired by the transformative nature of multi-agent reinforcement learning (MARL) and the potential applications of this field in the areas of military simulations and interactive systems. Furthermore, I have always been intrigued by quantum computing's ability to expedite AI models and circumvent computational bottlenecks.

I look forward to opportunities to be able to contribute to high-impact projects, learn from challenges, and advance my research skills. With this clear vision of moving towards advanced technologies that bridge the computation with real-world applications, the experience of the journey so far has reflected continuous learning and contributions towards AI and computational sciences.