

Ushnish Ghosal

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[Linkedin](#) | [Github](#) | [Portfolio](#)

Education

SRM Institute Of Science And Technology, Chennai
B.Tech in Computer Science And Engineering

June 2023 - May 2027
9.86 (Current)

Relevant CourseWork : Data Structures And Algorithms, Computer Organisation And Architecture, Advanced Programming Practice, Operating Systems, Object Oriented Design and Programming, Programming for Problem Solving, Image Processing, Artificial Intelligence, Python, C/C++, Java, SQL.

Skills

- **Programming Languages:** Python and Java(Proficient), C and C++(Intermediate), HTML, CSS, JavaScript (Beginner)
- **Database and Language:** MySQL, SQL, SQLite (Beginner)
- **Version Control Tools and IDE:** Git, Github, Visual Studio Code
- **Soft Skills:** Collaboration, Communication, Planning, Teamwork, Time Management, Leadership

Projects

→ Computer Vision Model for Coffee Bean Quality Assurance (2024)

Under the guidance of Dr. Krishnaveni S

- Developed a computer vision model to accurately identify 7 types of defective coffee beans within batches of 1000 enhancing quality control for a leading industry client.
- Created an OpenCV-based computer vision system for precise size classification of six size categories.
- Generated and validated JSON output files detailing size classifications, ensuring consistent quality control.

Tech stack - Python, OpenCV, numpy.

→ AnuPaat(2024) - A Sales Data Analysis Tool

[Github](#)

- Created a sales data analysis tool using Streamlit and Python, providing advanced forecasting and trend insights.
- Integrated OpenAPI to deliver actionable advice and support informed decision-making.
- Ensured seamless integration with existing workflows for enhanced business operations.

Tech stack - Python, Streamlit, Plotly, PyTorch, OpenAPI.

Work Experience

→ Technical Lead, IEEE CS SRM

August 2024 - Present

- **DVP Roadshow:** Coordinated a successful roadshow featuring high-profile speakers, including **Dr. Mohamed Rawidean Mohd Kasim** from the **Ministry of Science, Malaysia**, and **Dr. HR Mohan, IEEE Ambassador, Madras Section** regarding **Smart Agriculture**.
- **ICT Quiz Event:** Managed and executed an **ICT quiz competition**, which included organising the quiz, securing prize money, and engaging participants.
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→ Technical Head, Futurix SRMIST C. TECH ASSOCIATION

March 2024 - Present

- **ULTRON 3.0:** Spearheaded an **Ideathon, Photography and Videography Contest**, and a **Quiz Contest**, including designing and setting up quiz questions with high accuracy.
- **Lens-Lumina:** Organised a **successful photography and videography contest**, promoting creativity and technical skills among participants.

→ Embedded Developer, SRM Team Robocon

September 2023 - November 2023

- Gained expertise in **Arduino** and **Raspberry Pi Pico**.
- Optimised **three-wheel drive** which led to 100% improvement in a **three-wheel drive bot**.
- Completed a solid understanding of **Inverse Kinematics** and **ROS2**.

Certificates and Achievements

- Hacktober '22, GSSOC '24, SSOC '24 - *Contributor*
- Devfest '23 Chennai - *Attendee*
- CS50 - Python - Harvard x Cambridge
- AWS Cloud and Machine Learning Foundation