

Samrat Ghosh

LinkedIn: www.linkedin.com/in/samratghosh2004

GitHub: github.com/Samrat740

Email: samratghosh740@gmail.com

Mobile: +91-9609916176

SKILLS SUMMARY

- **Languages:** Python, C, C++, Java, JavaScript
- **Specialization:** Artificial Intelligence & Machine Learning, Computer Vision, Natural Language Processing, Deep Learning
- **Frameworks:** MERN Stack (MongoDB, Express.js, React, Node.js), Flutter, Hadoop, Tailwind CSS, Playwright
- **Tools/Platforms:** Automation Anywhere, Blue prism, MySQL, MongoDB, Oracle, MS Office, Streamlit
- **Soft Skills:** Leadership, Problem-Solving, Teamwork, Communication, Project Management, Adaptability

PROJECTS

- **Seed Quality Analyzer** | [Click to view](#) April 2025
 - Developed a real-time, Python-based web app for rapid seed quality analysis using HSV, RGB, Laplacian variance, and geometric features.
 - Incorporated augmentation learning for improved generalization; currently ML based, with planned upgrades to CNNs and active learning planned.
 - Built and hosted with Streamlit for an interactive UI, including instant PDF report generation.
 - Future updates: migration to React/React Native, enhanced model accuracy, and extended user features.
- **AI – Powered Travel Planner** | [Click to view](#) March 2025
 - Developed an AI-based web app to generate personalized travel itineraries using Google Gemini API and Streamlit.
 - Features: toggle based UI, voice search, animated loaders, shareable itineraries, and destination images.
 - Custom input system supports predefined options and free-text/voice input.
 - Upcoming: multi-language support, offline access, and booking platform integration.
- **Email sentiment classifier for business** December 2024
 - Devised an NLP model to classify emails as Positive, Neutral, or Negative.
 - Used NLTK, spaCy, and TensorFlow for text preprocessing & deep learning (LSTMs, Transformers).
 - Optimized accuracy with word embedding's (BERT, GloVe) & hyper parameter tuning.
 - Model can be used for business purposes to classify customer feedbacks or by any customer service team.

ACHIEVEMENTS

- **Media Club President** 2020 - 2022
Auxilium Convent School
- **Akhil Bhartiya Hindi Olympiad (Silver Medal – School level | 38th rank in State)** 2019 - 2020
Silver Zone Foundation

CERTIFICATIONS

- Automation Developer Associate Training – ICT Academy April 2025
- Master Course in Artificial Intelligence – Great Learning April 2025
- Application Development in Java - LPU July 2024
- Cloud Computing - NPTEL December 2024

EDUCATION

- **Lovely Professional University** Phagwara, Punjab
Bachelor of Technology - Computer Science and Engineering
Since August 2022
Favorite Courses: Machine Learning, Data Base Management System, Data Structures and Algorithm, Robotic Process Automation
- **Auxilium Convent School** Barasat, West Bengal
Percentage: 81%
April 2020 - March 2022
Favorite Courses: Physics, Chemistry, Mathematics, Computer Science
- **Auxilium Convent School** Barasat, West Bengal
Percentage: 87%
April 2016 - March 2020