

# SWASTIK GHOSH

Bangalore, India. · [swastikghosh1106@gmail.com](mailto:swastikghosh1106@gmail.com) · 9131230644 ·

Linkedin:<https://www.linkedin.com/in/swastik-ghosh-220a48209/> , GitHub: <https://github.com/sg1106>  
,Portfolio LLM :

## EDUCATION

### R.V. College Of Engineering

Bangalore,India

B.E (Bachelor of Engineering) Electronics and Telecommunications *CGPA: 7.69*

### Kendriya Vidyalaya No. 1 Raipur

Senior Secondary (Class XII) *Percentage: 85.6*

### Kendriya Vidyalaya No. 1 Raipur

Secondary (Class X) *CGPA: 10*

## WORK EXPERIENCE

### Ernst & Young (Associate Technology Consultant- Cybersecurity)

Bangalore , India

(Data Science and Machine Learning Developer)

Aug, 2024 - Present

- Pioneered advanced LLM capabilities including secure code parsing, automated graph generation, dynamic PDF/Excel report creation, and RAG-based database connectors, dramatically boosting system performance, automation, and user experience.
- Designed and deployed a CyberRisk Quantification framework estimating monetary losses and financial exposure from cybersecurity threats with risk-adjusted mitigation recommendations.
- Developed an LLM Vulnerability Detection Tool with chatbot integration and frontend dashboard, enhancing real-time threat detection and contributing to the successful launch of two innovative cybersecurity products.

### Hitachi (Research Intern)

Bangalore, India

(Data Science and Machine Learning)

Aug 2023 - Nov 2023

- Developed and deployed machine learning algorithms for leakage detection by integrating sensor data (pressure, flow, temperature) with system topology.
- Achieved 97.5% accuracy in predicting leak locations and severity, significantly improving maintenance efficiency and response times

## SKILLS

Programming & Tools:: Python, R, SQL, MATLAB, Git, Flask,Python IDEs, VS Code, , Postman  
Data & AI Expertise:: Data Science, Machine Learning, Deep Learning, NLP, LLMs, Generative AI,  
Databases & BI Tools: MongoDB, MySQL, Tableau, Power BI  
Platforms & Design:: AWS, UI/UX Design, Figma

## PROJECTS

### Finance AI Agent *Python, HTML, CSS, Flask*

[Live Demo](#) | [GitHub](#)

- Engineered an AI assistant delivering real-time stock updates, financial insights, and market history, enhancing investment decisions with personalized recommendations. Implemented trend analysis and stock suggestion logic using Finhub API for a tailored user experience.

### News Scraping & Fake News Detection *Python, HTML, CSS, Flask*

[GitHub](#)

- Developed a web scraper to extract live news from BBC, followed by a machine learning-based fake news classifier to identify misinformation.Integrated text analytics and classification models to evaluate news credibility, bolstering media literacy and user trust.

### Sentiment Analysis Dashboard *Python, HTML, CSS, Flask*

[Live Demo](#) | [GitHub](#)

- Built a sentiment analysis tool that identifies positive/negative keywords, calculates text polarity, and visualizes insights with charts and word clouds.Delivered a complete frontend interface with HTML and inline CSS, ensuring interactive visualization and user-friendly sentiment exploration.

## PUBLICATION

### Multi-Model Financial Fraud Detection with Explainable AI

Submitted in Financial Innovation in Springer

[Link](#)

### Machine Learning based Spectrum Sensing and Spectrum Management Using Blockchain

International Journal of Scientific Research in Engineering and Management(IJSREM)

[Link](#)

## AWARDS

### Google Data Analytics

Google

### EY Artificial Intelligence-Applied AI-Bronze Learning Badge

Ernst & Young