

Suvayu Biswas

Software Engineer | AI/ML Developer | Front-End Developer

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 github.com/SuvayuBiswas

PROFESSIONAL SUMMARY

Software Engineer with strong foundations in Java, ML, and Web Development. Experienced in designing lightweight deep-learning architectures (CSAF model) and building responsive web applications. Seeking roles in Software Engineering or AI/ML Development.

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science and Engineering,

Kalinga Institute of Industrial Technology (KIIT)

CGPA: 8.98 / 10

Relevant Coursework: DSA, DBMS, Operating Systems, COA, Automata Theory, Software Engineering, Java Programming, CN

2023 – 2027

Odisha, India

TECHNICAL SKILLS

Languages

Java, C, SQL, Python

AI/ML

PyTorch, Keras Tensorflow, CNNs, Attention Mechanisms, Data Preprocessing (basic)

Cloud Technologies

OCI, AWS

Web Technologies

HTML, CSS, JavaScript, Fetch API, Regex, localStorage

Tools & Platforms

Git, GitHub, Linux, VS Code

Concepts

OOP, API Integration, Responsive Design, Data Validation

RESEARCH PROJECT

Cascading Self-Attention Funnel (CSAF) — Brain Tumor Classification Model,

06/2025 – 11/2025

Research Project | Paper drafted (unpublished)

Collaborators: Prayag Kakoty, Kritish Yadav, Rinku Datta Rakshit (Faculty Advisor)

- Co-developed the **CSAF architecture**, a lightweight self-attention-based model for MRI-based multi-class brain tumor classification.
- Designed parameterized self-attention modules and a cascading down-sampling funnel, resulting in a compact model with **< 67,000 parameters**.
- Achieved **97.60% accuracy, 99.67% recall, and 99.01% precision** on the BRISC2025 dataset.
- Implemented full PyTorch training/evaluation pipeline, including preprocessing, custom attention layers, model optimization, and batch-wise inference.
- Co-authored the research paper describing methodology and evaluation; currently in pre-submission stage.
- Codebase kept private until publication; can be discussed during interviews.

PROJECTS

RPG Creature Search App

06/2025 – 07/2025

GitHub: https://github.com/SuvayuBiswas/Web_Dev/tree/master/RPG%20Creature%20Search%20App

App ↗

- Built a real-time RPG creature search app using Fetch API with optimized async handling and a responsive UI.
- Integrated FCC RPG API and deployed on GitHub Pages

Phone Number Validator Web App

05/2025 – 06/2025

GitHub: https://github.com/SuvayuBiswas/number_validator ↗

- Developed a real-time validation web tool for Indian phone numbers with instant user feedback.
- Deployed on GitHub Pages for public use.

CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 – Certified Architect Associate (Oct 2027) ↗

- Oracle Cloud Infrastructure 2025 – Certified Generative AI Professional (Oct 2027) ↗

- JavaScript Algorithms and Data Structures - freeCodeCamp ↗

- Responsive Web Design - freeCodeCamp ↗

- AWS Academy Graduate – Cloud Foundations, Amazon Web Services (Sep 2025) ↗

- Red Hat System Administration I (RH124 - RHA) - Ver. 9.3 ↗

LANGUAGES

English

Professional Proficiency

Hindi, Bengali

Native