

# Suvayu Biswas

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

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## 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,** 2023 – 2027  
*Kalinga Institute of Industrial Technology (KIIT)* Odisha, India  
CGPA: 8.98 / 10  
Relevant Coursework: DSA, DBMS, Operating Systems, COA, Automata Theory, Software Engineering, Java Programming, CN

## TECHNICAL SKILLS

### Languages

Java, C, SQL, Python

### Cloud Technologies

OCI, AWS

### Tools & Platforms

Git, GitHub, Linux, VS Code

### AI/ML

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

### Web Technologies

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


### 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*Research Project | Paper drafted (unpublished)*  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](https://github.com/SuvayuBiswas/Web_Dev/tree/master/RPG%20Creature%20Search%20App)   
• 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](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) 
- AWS Academy Graduate – Cloud Foundations, Amazon Web Services (Sep 2025) 
- JavaScript Algorithms and Data Structures - freeCodeCamp 
- Responsive Web Design - freeCodeCamp 
- Red Hat System Administration I (RH124 - RHA) - Ver. 9.3 

## LANGUAGES

### English

Professional Proficiency

### Hindi, Bengali

Native