

# Vivek Neeralagi

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## EDUCATION

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**Sahyadri College of Engineering and Management**  
*B.E. in Computer Science and Engineering (CGPA: 8.85)*

Mangaluru, India  
2023 – Present

## EXPERIENCE

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**Executive Member – Sahyadri Open Source Community (SOSC)**  
*Sahyadri College of Engineering and Management*

2024 – Present  
Mangaluru, India

- Lead maintenance and feature development of the official SOSC website using modern frontend-backend architecture.
- Collaborate in Git-based open-source workflows including branching strategies, pull requests, and structured code reviews.
- Assist in organizing technical workshops and open-source contribution drives impacting 200+ students.
- Manage version control practices and CI/CD style deployment strategies for community-driven projects.

## PROJECTS

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**Redactly – Healthcare Data Redaction System** | *Python, Tesseract OCR, NLP, Regex, OpenCV*

- Built an automated PII redaction system for healthcare documents using OCR pipelines and NLP-based entity detection.
- Integrated Tesseract OCR with layout-aware processing to detect text across complex document structures.
- Implemented intelligent bounding-box auto-positioning using coordinate mapping and image preprocessing.
- Designed for compliance-focused environments, minimizing sensitive data exposure.

**Developer Portfolio with CMS Blog** | *Astro, React, Sanity, TypeScript, Tailwind CSS*

- Designed and developed a modern, responsive portfolio website with integrated blog functionality using Astro and React.
- Integrated Sanity as a headless CMS to manage dynamic blog content with structured schemas and real-time content updates.
- Implemented SEO optimization, dynamic routing, and markdown rendering for scalable content publishing.

**Indic Language Translation (English to Tulu)** | *Python, NLP, Tokenization, Custom Datasets*

- Developed translation pipelines for low-resource regional language processing.
- Handled morphological and syntactic challenges between English and Tulu dialects.
- Built preprocessing pipelines including tokenization, normalization, and dataset structuring.
- Designed the system to support open-source extensibility and future dataset scaling.

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, TypeScript, Java, C/C++, SQL

**Frontend:** React, Astro, Tailwind CSS, HTML5, CSS3

**Backend:** Node.js, Express, REST APIs

**Databases:** MySQL, PostgreSQL

**Tools:** Git, Docker, Sanity (Headless CMS), OpenCV, Tesseract OCR

**Core Interests:** Full-Stack Development, Web Architecture, Systems Programming