Sadananda Krishna Hegde

• +91 70192 62007 • sadanandahonnavar@gmail.com • linkedin • github

I'm an AI & ML undergraduate at UVCE, Bangalore, with strong skills in C, C++, Javascript, and Python. I have a solid understanding of data structures, algorithms, and computer architecture, and I'm passionate about building scalable, real-world software solutions using modern development practices.

Technical Skills

- **Languages:** C, C++ , Python , javascript
- **Software:** Microsoft Powerpoint, Word, Excel.
- **Tools:** Git

Projects

- **Sentiment Classifier for Kanglish (Kannada + English):**
    - Developed a machine learning-based sentiment analysis model for Kanglish, a code-mixed language combining Kannada and English.
    - Utilized Hugging Face's xlm-roberta-base, a multilingual transformer model ideal for low-resource languages like Kannada.
    - Applied AutoTokenizer for effective text preprocessing and tokenization.
    - Fine-tuned the model using Hugging Face's Trainer API to classify text into positive, negative, and neutral sentiment classes.
    - Demonstrated skills in Python, NLP, multilingual model handling, and training transformer-based models for real-world applications.

- **Real-Time 3D Graphics Engine (OpenGL – macOS M2):**
    - Built a lightweight 3D engine using OpenGL 4.1 on macOS (Apple M2).
    - Implemented real-time lighting, shadows, camera movement, and texturing.
    - Used GLSL shaders, GLFW, and GLM to create a basic rendering pipeline.
    - Demonstrated knowledge of GPU pipelines, framebuffers, and 3D transformations.
    - Showcased strong skills in C++, shader programming, and graphics fundamentals.

Education

- SDM PU COllege, Honnavar, @2nd PUC [2022]
    - PCMC: 98%
- **University of Visvevaraya College of Engineering, B.Tech in AIML** [Expected Graduation: 2026]
    - CGPA: **9.03** [Until V semester]
    - **Relevant Coursework:** Data Structures & Design of Algorithms, Digital Image Processing, Digital System Design, Operating Systems & Computer Architecture and Organisation, Artificial Neural Network & Machine Learning* (current semester).

Leadership & Activities

- Volunteer, IEEE UVCE's Impetus – Mock Placements