Sadananda Krishna Hegde

#1137/7, Sri Rama Nilaya, 2nd main, 2nd cross, Vijayanagar, Bengaluru - 560040
• +91 70192 62007 • sadanandahonnavar@gmail.com

I'm an AI & ML undergraduate at UVCE, Bangalore, with strong skills in C, C++, Java, and Python. I have a solid grasp of data structures, algorithms, and computer architecture, and I'm quick to learn new technologies. I'm passionate about applying my knowledge to real-world problems, especially in software development and AI.

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: **8.9 [Until IV 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