

SUJAN K S

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Career Objective

AI/ML enthusiast with hands-on experience in computer vision and NLP, skilled in Python and deep learning frameworks, seeking to apply knowledge in developing scalable AI solutions.

Education

B.Tech in Artificial Intelligence and Machine Learning	2023 – 2027
<i>N.M.A.M. Institute of Technology</i>	CGPA: 8.51
Pre-University (PU)	2021 – 2023
<i>Vivekananda Pre-University College</i>	Grade: 87%

Projects

GeoSentinel – Real-Time AI-Powered Landslide Detection System	GitHub Repo
- Designed a real-time landslide detection system using YOLOv8 segmentation achieving 0.731 mAP. - Incorporated risk classification and alert generation for early hazard detection in vulnerable regions - Developed an interactive monitoring dashboard enabling real-time visualization and decision support	
SmartQ Generator – Multilingual NLP & TTS System using T5	GitHub Repo
- Built a multilingual NLP pipeline using T5 transformer for automated question generation from text and speech inputs - Integrated speech-to-text, language translation, and text-to-speech modules for multilingual support - Developed a Streamlit-based application with real-time question generation, editing, and PDF/TXT export features	
AI Human Face Generation using WGAN-GP	GitHub Repo
- Developed a WGAN-GP based generative AI system using TensorFlow to generate realistic human face images from a custom dataset of 2,776 photographs. - Achieved stable training without mode collapse or divergence through gradient penalty, data augmentation, hyperparameter tuning, and evaluation using loss curve analysis and an Inception Score of 1.522 and FID of 60.816.	

Technical Skills

- Programming:** Python, C, C++
- AI/ML:** Machine Learning, Deep Learning, Computer Vision, Natural Language Processing (NLP), Generative Adversarial Networks (GANs)
- Frameworks:** TensorFlow, PyTorch, YOLOv8, Hugging Face Transformers, OpenCV, Scikit-learn, NumPy, Pandas
- Core CS:** Data Structures, OOP, DBMS, Operating Systems, Computer Networks
- Tools:** Git, Streamlit, Jupyter Notebook, Google Colab, Kaggle, Roboflow, MySQL, Power BI

Experience

Machine Learning Intern	1 Month
- Developed a breast cancer prediction model using scikit-learn, achieving 0.85 accuracy. - Conducted data preprocessing and feature selection to improve model performance by 0.10. - Collaborated with team members to validate model results and prepare reports.	

Certifications

IBM AI Fundamentals — Machine Learning with Python (Coursera) — Scouts Rajya Puraskar Award

Soft Skills

Analytical Thinking, Problem-Solving, Communication, Adaptability, Quick Learning, Teamwork

Languages

English (Fluent), Kannada (Native), Japanese (Beginner – JLPT N5 Preparation)