NANDAN UPADHYAYA

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EDUCATION

NMAM Institute of Technology — **Nitte, Karnataka, India**
Bachelor of Technology in Artificial Intelligence and Data Science ***(CGPA: 9.78/10.0)*** — *2022 - 2026*

PoornaPrajna Pre-University College — **Udupi, Karnataka, India**
Higher Secondary Education (Science) ***(Percentage: 98.16%)*** — *2020 - 2022*

Vidyavardhaka English Medium School — **Shirva, Karnataka, India**
Secondary Education ***(Percentage: 92.8%)*** — *2020*

PROFESSIONAL EXPERIENCE

Ganglia Technologies Pvt. Ltd — **Manipal, India**
Software Engineer Intern — *June 2024 - July 2024*

- Engineered deep learning models achieving 99% accuracy for ulcerative colitis severity classification using Mayo Endoscopic Score
- Implemented TensorFlow and Keras frameworks while integrating SMOTE to address class imbalance challenges which improved accuracy by a factor of 1.5
- Designed ensemble voting mechanism across multiple models, enhancing prediction consistency by 37%

SKILLS

Technical Skills: Python , Java, C , TensorFlow, Keras, Pytorch, NLTK, Scikit-Learn, Pandas, NumPy, HTML/CSS, JavaScript, React, Flask, Git, PowerBI
Professional Skills: Adaptability, Effective Communication, Problem-Solving, Time Management, Leadership, Presentation Skills

PROJECTS

Terrain-Aware SAR Image Colorization Using Conditional GAN — **Advanced Deep Learning**
Deep Learning-Based Remote Sensing Image Enhancement

- This project implements a deep learning system for translating Synthetic Aperture Radar (SAR) imagery into realistic RGB images.
- A pretrained ResNet34 Model is finetuned to classify different terrains for SAR Images. Integrating the ResNet34 Model with a conditional Generative Adversarial Network (GAN) architecture, the model can generate colorized versions of SAR data that closely resemble aerial/satellite photography.
- Evaluated the model using various metrics such as PSNR, SSIM, FID etc.
- Project Link: https://github.com/Nandan-Upadhyaya/SAR

Food Ordering Management System — **Full-Stack Web Development**
E-commerce Platform with Analytics Integration

- Designed and developed end-to-end web application with secure user authentication, cart functionality, and payment processing
- Integrated Power BI analytics dashboard providing business intelligence on sales patterns, customer preferences, and inventory management
- Project Link: github.com/Nandan-Upadhyaya/Food-Ordering-Management-System

Crop Yield Prediction System — **Machine Learning based Web Application**
Regression Models for Agricultural Forecasting

- Developed a crop yield prediction system using React.js and Flask, integrating ML models with secure MongoDB-based authentication and an interactive dashboard for model performance visualization.
- Project Link: https://github.com/Nandan-Upadhyaya/Crop_Yield_Prediction_Advanced_UI

PUBLICATIONS

- Upadhyaya, N., et al. (2024). "Application of Machine Learning for Predicting the Crop Yield." In Proceedings of IEEE MPCIT 2024, JNN College of Engineering, Shivamogga. **DOI:** 10.1109/MPCIT57991.2024.10892647

LEADERSHIP & ACHIEVEMENTS

- **Technical Co-Coordinator** — Department of Artificial Intelligence and Data Science (2023-2024)
- **HackFest Finalist** — Secured top 15 position among 60 teams in national-level hackathon by Finite Loop Club