

AVS NARAYANA

✉ avsn1122@gmail.com ☎ 83338 71967 in narayana-annavarapu 📍 AVS4211

PROFILE SUMMARY

Computer Science graduate with a specialization in Artificial Intelligence and Machine Learning, equipped with strong skills in Python, TensorFlow, scikit-learn, and Django. Experienced in developing and deploying real-world AI applications, including disease prediction systems and deep learning models. Proven ability to lead collaborative projects, implement end-to-end ML pipelines, and build full-stack web applications. Passionate about leveraging data science and AI to drive innovative solutions in healthcare and automation domains

Education

Tirumala Engineering College, Narasaraopet, AP <i>Bachelor of Technology in Computer Science (AI-ML)</i>	<i>Aug 2021 – May 2025</i>
◦ CGPA: 7.2 / 10	
Oxford Vit Academy, Narasaraopet, AP <i>Intermediate (MPC)</i>	<i>Aug 2019 – May 2021</i>
◦ Percentage-91.8%	
Oxford High School, Narasaraopet, AP <i>Class 10 SSC</i>	<i>Apr 2019</i>
◦ Percentage-94%	


Experience

AI/ML/DS Intern <i>International Institute of Digital Technologies</i>	<i>Aug 2023 – Nov 2023</i>
<ul style="list-style-type: none"> ◦ Assisted in preprocessing and analyzing over 100,000 real-world data records using Python libraries like Pandas and NumPy, ensuring clean datasets for machine learning models ◦ Supported the development of end-to-end AI/ML solutions by working with a cross-functional team of engineers and mentors, contributing to data handling and model building stages ◦ Applied feature selection and dimensionality reduction techniques (PCA, Variance Threshold) to improve training efficiency and boost model performance by 25%. ◦ Implemented supervised learning algorithms such as Logistic Regression, Random Forest, and XGBoost, learning to optimize them using GridSearchCV and cross-validation methods. ◦ Practiced model versioning and collaborative development using Git, Google Colab, and Jupyter Notebooks, gaining hands-on experience in managing machine learning workflows. 	

Certifications

Deep Learning Specialization – NPTEL	2023
Machine Learning Fundamentals – Indian Institute of Petroleum and Energy	2023
Python for Data Science – HackerRank	2022

Projects

AI Image Classifier & Forecasting Projects (Club Work)	
<ul style="list-style-type: none"> ◦ Led a team of 12 peers in building image classification and time-series forecasting models for real-world use cases like traffic prediction and defect detection ◦ Mentored students in foundational topics including CNNs, RNNs, and model evaluation metrics ◦ Implemented modular codebases and enforced PEP8 guidelines for maintainable, scalable project devel- 	

opment.

- Applied **data augmentation** (e.g., **flipping, rotation, brightness adjustment**) to increase **dataset variability**, leading to a **15% boost in model generalization**
- **Achieved 95% accuracy**, outperforming standard CNN baselines; conducted rigorous evaluation using **precision, recall, F1-score, and confusion matrix**.
- **Utilized transfer learning** to reduce training time while maintaining high performance across multiclass classification tasks

Sugarcane Leaf Disease Detection using Deep Learning

- **Designed and deployed** deep learning models using **MobileNet** and **EfficientNet** architectures to accurately classify sugarcane leaf diseases
- **Collected, annotated, and preprocessed** a dataset of 5,000+ high-resolution images using **OpenCV** and **TensorFlow's** image pipelines

Skills

Programming Languages: Python, C, Java, C++

Data Science & Analytics : scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, Feature Engineering, EDA, Hyperparameter Tuning

Deep Learning Frameworks : TensorFlow, Keras, PyTorch

Machine Learning & AI : Supervised Learning, Neural Networks, Classification, Regression, Data Augmentation

Tools & Platforms: : Git, GitHub, Docker, Jupyter Notebooks, Google Colab, Django Admin, Visual Studio Code, PyCharm