JALDU BALASUBRAMANYAM GUPTHA

Computer Science and Engineering with specialization in
Artificial Intelligence and Machine Learning
Vellore Institute of Technology, Chennai

📞 +91-9502458209
✉ balujaldu25@gmail.com
✉ balasubramanaym.guptha2021@vitstudent.ac.in
⌗ jaldu balasubramanyam guptha
in jaldu balasubramanyam guptha

WORK EXPERIENCE

•AI Intern, ZettaOne Technologies India Pvt Ltd   *September 25, 2023 to December 15, 2023*
Bangalore, Karnataka

– Worked as an AI intern, contributing to the Fiducial Point Detection in PCBs using the YOLOv8 algorithm. Gained hands-on experience integrating the project with a local system, enabling fiducial point detection in PCBs via a local camera.

RESEARCH PUBLICATIONS

•Detection of Neem Leaf Disease Using Deep Learning Models
JBS Guptha , *International Conference on Data Science and Business Systems , IEEE Publications, 2025*

– Applied various deep learning models for neem leaf disease detection and achieved 90.2 percent accuracy with DenseNet. K-means segmentation showed no improvement; future researchers may improve the K-means by integrating U-Net or Mask R-CNN.

EDUCATION

•Vellore Institute of Technology, Chennai   *2021-2025*
BTech, CSE with AI and ML   CGPA: 8.22

•Sri Chaitanya Jr Kalasala, Gudavalli,Vijayawada   *2019-2021*
Andhra Pradesh State Board of Intermediate Education, Andhra Pradesh   Percentage: 95.3

•Dr.kkr Gowtham High School, Vijayawada   *2018-2019*
Board of Secondary Education Andhra Pradesh   CGPA: 9.7

CERTIFICATIONS

•Smart Internz Externship Certificate   *N.E.A.T*
Externship program in Artificial Intelligence and Machine Learning powered by Google Developers   2023

•Microsoft Certified: Azure AI Fundamentals (AI-900)
Validates core AI and ML knowledge.   2025

ACHIEVEMENTS

•Best Paper Award   *IEEE Conference*
Presented "Detection of Neem Leaf Disease using Deep Learning Models" at ICDSBS conference   2025

PERSONAL PROJECTS

•Pipeline-Based-Fraud-Detection-with-PCA-and-XGBoost-with-Business-Insights
– Developed a fraud detection model using PCA and XGBoost with a pipeline on the imbalanced Kaggle dataset, achieving 96 percentage test accuracy with Stratified 5-Fold CV.

•Web Page Summarization Using Custom Search Engine with Hybrid Models BERT + GPT
– Developed a custom search engine leveraging BERT+GPT for contextual web content summarization. Built an interactive Flask app enabling real-time query processing and information extraction.

TECHNICAL SKILLS AND INTERESTS

Programming Languages: Python, SQL
Coursework: Machine Learning, Deep Learning, Natural Language Processing, computer vision, Explainable Artificial Intelligence, DBMS
Frameworks: TensorFlow, PyTorch, scikit-learn, spaCy, Keras, Hugging Face, Transformers
Sofskills: Adaptability, Attention to detail, Technical skills, Time management, patience
Areas of Interest: Artificial Intelligence, Machine Learning, Generative AI