

# Francy Pothuraju

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📍 Narasapur, Andhra Pradesh

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🔗 Hackerrank

## EDUCATION

- **Bachelor of Technology in Computer Science Engineering,**  
*University College of Engineering JNTUK | CGPA-8.32*

2021 – 2025

- **Board Of Intermediate: MPC (Mathematics, Physics, Chemistry),**  
*Sri Chaitanya Mahila Junior Kalasala | CGPA-9.74*

2019 – 2021

## INTERNSHIPS

**Machine Learning Intern, SkillRaace** 🔗

Jun 2024 – Aug 2024

- Achieved 92% accuracy with a Random Forest model for wine quality prediction, reducing quality control rejections by 15%.
- Enhanced data quality to 98% completeness, improving decision-making accuracy and stakeholder satisfaction by 25%.

**Cybersecurity Intern, Devtown** 🔗

Apr 2023 – Jun 2023

- Developed a Python-based vulnerability assessment tool integrating Nmap and NVD API, automating network scanning and CVE identification, generating detailed JSON and text reports for 50+ vulnerabilities in lab environments.
- Enhanced tool reliability on Windows by implementing direct subprocess execution of Nmap, ensuring seamless integration and consistent performance across diverse environments.

## SKILLS

**Programming Languages** — Python, C++, SQL, HTML, CSS, JavaScript.

**Libraries & Frameworks** — NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Keras, PyTorch, Flask, Streamlit, Node.js, Fast API, API Integration

**Technical Expertise** — Machine Learning, Cybersecurity, Data Analysis.

**Development Environments** — Jupyter, Colab, VS Code, Python IDLE, MySQL, Pycharm, Spyder, Git, Docker, PostgreSQL, Word, Linux.

## PROJECTS

**Lung Disease classification by Lung Tissue Densities, Tech Stacks:**

Dec 2024 – Mar 2025

*DenseNet121, Streamlit, OpenCV, Python, TensorFlow, Keras, NumPy, Pandas* 🔗

- Reached 92% accuracy with a DenseNet121 (CNN) model in TensorFlow/Keras to classify lung diseases from over 1 lakh medical images.
- Deployed via Streamlit, creating an interactive web application for real-time image uploads and disease classification, improving user engagement by 30%.

**AI Career Path Recommender, Python, FastAPI, Transformers (BERT),**

Jul 2024 – Aug 2024

*scikit-learn, Next.js, Docker, PostgreSQL*

- Developed AI career coach app for 100+ users with FastAPI, BERT, and Next.js.
- Achieved 85%+ accuracy in predictions; reduced feedback time by 70%.

**Human Activity Recognition (HAR),**

Jun 2024 – Jul 2024

*Tech Stack: Python, Flask, TensorFlow, Keras, OpenCV, scikit-learn.* 🔗

- Attained 94% accuracy using a MobileNetV2-based CNN with TensorFlow to classify 15 activities, incorporating webcam prediction and voice feedback.
- Implemented using Flask along with HTML/CSS/JS, enabling image uploads or live video for instant activity recognition.

## CERTIFICATIONS & ACHIEVEMENTS

- Cyber Security Industrial Training Program-Devtown 🔗
- Data Analytics with Python & Data Science for ENGINEERS-NPTEL 🔗
- Python Essentials-1 Badge -Cisco Networking Academy 🔗

## LEADERSHIP

- Led a team of 8 members in developing a full-stack web application, ensuring timely delivery and maintaining a 95% client satisfaction rate.