

Vishakh Nair

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PROFESSIONAL SUMMARY

AI/ML-focused Computer Science undergraduate skilled in building automation tools, predictive analytics models, and scalable data systems. Eager to apply technical and analytical expertise in machine learning and data-driven product development.

EDUCATION

Vellore Institute of Technology University

Amravati, AP

Bachelor of Technology in Computer Science, Specialization in Artificial Intelligence and Machine Learning 2022 – 2026

EXPERIENCE

Software Development Intern

June 2024 – July 2025

Vayoaura Pvt Ltd.

Remote, Thailand

- Engineered responsive website using HTML5, CSS3, and JavaScript, enhancing company branding.
- Built Python automation tools (e.g., receipt generator), improving workflow efficiency and documentation.
- Interfaced with stakeholders to gather requirements and deploy tailored business solutions.

Research Analyst

May 2024 – August 2024

Indian Institute of Technology Guwahati

Remote, Guwahati

- Developed AI/ML models for energy load forecasting to optimize consumption and resource allocation.
- Processed and analyzed large-scale energy datasets using feature engineering and predictive modeling.
- Collaborated with faculty to implement sustainable energy management solutions using data-driven methods.

PROJECTS

Pneumothorax Detection in Portable Chest X-rays | *Python, PyTorch, Federated Learning, Deep Learning*

- Built federated deep learning models for pneumothorax detection, ensuring accuracy and data privacy.
- Created scalable data pipelines for preprocessing, augmentation, and feature extraction from imaging datasets.
- Deployed a REST API for real-time AI inference and hospital integration.

NeuroChain – AI-Powered Retail Insights Platform | *React, FastAPI, Python, Machine Learning*

- Built FastAPI backend integrating ML models for demand forecasting and inventory optimization.
- Developed full-stack dashboard delivering real-time retail insights and supply chain analytics.
- Enhanced forecasting accuracy to reduce costs and improve enterprise supply efficiency.

CORE COMPETENCIES

Languages: Java, Python, SQL, Dart, R

Frameworks: React, Django, Flutter, Flask, FastAPI

Developer Tools: Git, Docker, AWS, VS Code

Libraries: PyTorch, TensorFlow, scikit-learn, pandas, NumPy, Matplotlib, Keras

Data Visualization: Tableau, PowerPoint

Soft Skills: Analytical Thinking, Communication, Problem-Solving

CERTIFICATIONS

Google Advanced Data Analytics – Coursera

AWS Cloud Practitioner – AWS

Data Analyst with R – DataCamp

Flutter and Dart – Udemy