Rakesh K

ENGINEERING STUDENT

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PROFESSIONAL SUMMARY

AI-focused Software Engineer with hands-on experience in Machine Learning, Deep Learning, Computer Vision, and NLP. Proficient in Python and deep learning frameworks for building, training, and deploying scalable AI solutions. Contributed to production-ready AI systems at Larsen & Toubro and recognized among the Top 12 teams at L&T Pi Awards 2025 for innovative digital solutions.

TECHNICAL SKILLS

- Programming Languages: Python, SQL, JavaScript
- Libraries & Frameworks: NumPy, Pandas, scikit-learn, TensorFlow, PyTorch, OpenCV
- Databases & Tools: MySQL, MongoDB, Google Colab, Git, Power BI, VS Code
- AI & ML Skills: Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision, Generative AI, Model Deployment, Data Preprocessing
- Soft Skills: Problem Solving, Analytical Thinking, Team Collaboration, Communication Skills, Time Management

PROFESSIONAL EXPERIENCE

Intern — Larsen & Toubro (L&T), Chennai
Project: Integrated AssetOne Portal Project **FEB 2025 – JULY 2025**

- Validated and standardized 10K+ records (fuel, equipment, material), achieving 99% accuracy.
- Performed API and System Integration Testing across 15+ modules using Postman and Swagger.
- Worked with FMB125 IoT sensors for real-time fuel and equipment monitoring.
- Project recognized in Top 12 at L&T Pi Awards 2025 (out of 1108+ entries).

Intern — Satvat Infosol Pvt. Ltd.
Project: AI-Based Attendance System **JAN 2025 – FEB 2025**

- Built a face-recognition attendance system with 95% accuracy using OpenCV and Python.
- Automated attendance for 50+ employees, reducing manual work by 70%.
- Deployed Flask API for real-time logging and report generation.

Intern — NSIC (National Small Industries Corporation), Chennai **JUNE 2024 – AUG 2024**
Project: AI/ML Development Internship

- Gained hands-on experience in AI/ML model development, data preprocessing, and deployment pipelines.
- Worked with TensorFlow, PyTorch, and Python (Pandas, NumPy, Scikit-learn) for real-world applications.
- Assisted in designing and validating ML algorithms for predictive analytics and data visualization tasks.

PROJECTS

- **AI-Powered Cybersecurity Threat Detection System:** Developed a machine learning–based intrusion detection system using NSL-KDD dataset, Random Forest classifier, and Flask API for real-time threat detection. **GitHub**
- **Plant Disease Detection Using Deep Learning:** Built a CNN model with TensorFlow/PyTorch and OpenCV to detect and classify plant diseases through image preprocessing and deep learning. **GitHub**
- **Fake News Detection Using Machine Learning and NLP:** Implemented an NLP-driven machine learning model in Python to classify news articles using text preprocessing, feature extraction, and supervised learning. **GitHub**

CERTIFICATIONS

- **AWS Certified Machine Learning**— Infosys Springboard
- **Data Analysis with Python**—IBM
- **DevOps and Cloud (First Class)**— L&T EduTech
- **Data Science Workshop**— NoviTech R&D Pvt. Ltd.

EDUCATION

Jeppiaar University, Chennai Bachelor of Technology (B.Tech) — 9.23 CGPA (5Th Sem) 2022 – 2026
Computer science Engineering

Guru Nanak Matric Hr. Sec. School, Chennai 2021 – 2022
Higher Secondary Education (HSC)