

VINAYAK TATA

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Summary

B.Tech student specializing in Artificial Intelligence & Machine Learning with hands-on experience in Python, machine learning, NLP, and computer vision. Skilled in developing practical AI solutions and working on real-world projects. Eager to gain industry exposure and contribute as an AI/ML or Software Engineering Intern.

Education

B.Tech in Artificial Intelligence & Machine Learning

NRI Institute of Technology | [2023-2027]

CGPA: 8.2

Experience

Internship Averix Solutions – Internship in Machine Learning & AI (Online)

- Built a Wine Quality Prediction model using RandomForest, XGBoost, and CatBoost ensemble, achieving 89% accuracy on 1,599 samples.
- Applied SMOTE for class balancing, feature engineering, and SelectKBest for feature selection to optimize model performance.

Projects

Scam Detector | Python, Flask, BeautifulSoup,NLP,Requests – [\[GitHub\]](#)

- Developed a Flask web app to detect fraudulent internship offers using domain, WHOIS, and CIN validation techniques.
- Extracted and analyzed website data using BeautifulSoup and TextBlob to generate an automated trust score for URL verification.

Vocal Sense | Python, Flask, Speech-to-Text– [\[GitHub\]](#)

- Built a speech-to-text application with regional language support, improving accessibility for non-English speaking farmers.
- Implemented voice command processing pipeline to automate navigation and data entry, reducing manual input effort.

Resume Analyzer using AI | Python, NLP, spaCy – [\[GitHub\]](#)

- Developed an NLP-based resume analysis tool using spaCy and cosine similarity scoring to match resumes against job descriptions.
- Generated automated keyword gap analysis and improvement suggestions, increasing resume-job description match accuracy.

Leaf Disease Detection | Python, PyTorch, CNN – [\[GitHub\]](#)

- Trained a CNN-based image classification model using PyTorch to detect plant leaf diseases with regional language output support.
- Deployed a real-time prediction system achieving field-level accessibility for farmers, enabling on-site disease diagnosis.

Skills

Programming Language: Python

Web Scrapping & Automation: Selenium , BeautifulSoup , Requests

Frameworks & Libraries: Flask, FastAPI,Scikit-learn

AI/ML & NLP: NLP Pipelines, Prompt Engineering , CNN, Ensemble Learning

Data Science & Visualization: NumPy, Pandas, SQL, Matplotlib , Power BI

Tools & Platforms: Git, GitHub

Cloud & DevOps: AWS (S3, SageMaker, Lambda, EC2), Docker

Testing & Experiment Tracking: pytest, MLflow

Hackathons & Certificates

NRI Institute of Technology Hackathon: Collaborated with peers to develop innovative full-stack web solutions, solving real-world challenges and enhancing practical skills.

Code Spark Hackathon: Participated in problem-solving challenges using AI/ML and full-stack development, delivering practical solutions under tight deadlines.

Participant, ACM India ROCS @ SRM University–AP

- Attended research-oriented sessions by IIT/IIIT professors on current challenges in Computer Science
- Participated in discussions on research internships and graduate study opportunities

