

RUTHIKA NALAJALA

Email | LinkedIn | GitHub | Project Website

Professional Summary

Aspiring AI/ML Engineer in training with hands-on project experience in data preprocessing, data analysis, and model development. Proficient in Python, SQL, and machine learning libraries such as Scikit-learn and TensorFlow. Strong analytical thinker with practical exposure to data visualization tools like Matplotlib and Tableau. Eager to contribute enthusiasm, adaptability, and a fresh perspective to a dynamic team.

Education

DVR & Dr. HS MIC College of Technology, Kanchikacherla, AP Sep 2022 – Present

- Bachelors in Artificial Intelligence & Machine Learning (GPA: 9.5/10)

Training

Intellipaat in collaboration with Drishti CPSC, Indore University Oct 2024 – Present

Advanced Certification in Artificial Intelligence and Data Science.

Technical Skills

Programming: Python, SQL, Basic Java

AI/ML: Regression, Classification, Clustering, NLP, Model Evaluation, Basic DL

Libraries/Frameworks: Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib, NLTK

Tools Used: Git, VS Code, Tableau, Power BI, Excel

Cloud/Deployment : AWS (EC2, S3), Streamlit, Render

Experience

Machine Learning Intern, Cognizify Technologies May 2025 – June 2025

Worked on real-time ML tasks including classification, regression, and recommendation systems. Assisted in data preprocessing and exploratory data analysis (EDA) for model building and evaluation.

- Restaurant Rating Predictor:** Built a regression model using restaurant data. Achieved R^2 score of 0.88 and $RMSE < 0.6$ through effective feature engineering. [\[GitHub Repo\]](#)
- Restaurant Recommendation System:** Designed a content-based filtering system that decreased search time by 50%. [\[GitHub Repo\]](#)
- Cuisine Classification:** Developed a Random Forest model to classify restaurants by cuisine with 92% accuracy, enhancing categorization speed. [\[GitHub Repo\]](#)

AI & Cloud Intern, AICTE – AWS Academy Jan 2024 – Mar 2024

- Deployed machine learning models using AWS EC2 and S3 storage in simulated production environments.
- Executed 10+ cloud-based AI labs, enhancing hands-on knowledge of MLOps and model hosting on AWS.

Projects

Social Media Follower & Like Prediction [\[GitHub Repo\]](#) [\[Live Site\]](#)

- Tools: Python, scikit-learn, Streamlit, Random Forest, KMeans, Git, matplotlib
- Developed a web app to predict follower and like growth using Random Forest Regressor with 75% R^2 accuracy
- Applied KMeans clustering to segment influencers into micro, mid-tier, and celebrity categories
- Enhanced UX via Streamlit: clean input forms, visual summaries (charts, pie graphs), and real-time output generation.
- Deployed via Streamlit Cloud; models serialized using pickle; 100% code version-controlled on GitHub.

End-to-End Machine Learning Projects Collection

[GitHub Repo]

- Repository of complete ML pipelines: EDA → Preprocessing → Modeling → Evaluation → Deployment.
- Includes a curated set of **8 machine learning projects** covering classification, regression, clustering, and disease/income prediction.
- Notable results: Accuracy up to **98.47%** and R^2 up to **0.89** on real-world datasets.

AI-Powered Story Generator - Flask, Gemini AI, HTML/CSS

[GitHub Repo]

- Developed a web app that converts image input into dynamic audio-backed stories in various genres (moral, mystery, horror).
- Integrated Google Gemini 1.5 Flash for AI text generation and deployed the app using Render.
- Reduced content creation time by 80% and enhanced user experience with voice narration.

Certifications

- Advanced Certification in AI & Data Science (Ongoing) – Intellipaat & Drishti CPSC, Indore University
- AWS Academy Graduate – Machine Learning Foundations, Cloud Foundations
- Introduction to Generative AI – Google

Achievements

- Winner – Web Wizards Hackathon (2nd/150 students)
- Best Student – AI/ML Department (Mar 2023)