

Rachitha Acharya

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Professional Summary

Motivated Software Developer specializing in Data Science and Machine Learning, with hands-on experience delivering 15+ ML projects, including 4 end-to-end model deployments across healthcare, agriculture, and enterprise domains. Skilled in Python, SQL, Pandas, NumPy, Scikit-learn, Tableau, Power BI, RAG systems, and LLaMA 3.1, with strong capabilities in predictive analytics, data preprocessing, visualization, and model development. Developed AI-driven solutions, automated workflows, intelligent chatbots, and government systems involving appointment management and reporting modules. Known for analytical thinking, problem-solving, and transforming data into actionable insights. Seeking a Junior Data Scientist role to apply ML expertise, visualization skills, and contribute to data-driven decision-making.

Professional Experience

Jr Software Developer – Data Science & Machine Learning Accolade Tech Solution Private Limited

Mangalore, India ·
Sep 2023 - Present

- Designed and implemented machine learning solutions across healthcare, agriculture, analytics, and multiple other domains.
- Supported early disease detection, crop health monitoring, predictive analytics, and workflow automation.
- Successfully completed 15+ machine learning projects, including 4 full end-to-end model implementations.
- Built a Retrieval-Augmented Generation (RAG) chatbot using LLaMA 3.1 on the Ollama framework, enabling intelligent, context-aware responses from custom knowledge bases.
- Delivered government-based council projects featuring appointment management modules, comprehensive reporting systems, Excel/PDF export functionality, and role-based access control.
- Actively involved in system maintenance and enhancements.

Projects

State-Level Dental Council Management Systems (NDA Project)

- Developed and enhanced end-to-end council management systems, including:
- Appointment Slot Management System for practitioners and patients, featuring slot scheduling, automated reminders, and streamlined appointment workflows.
- Council Reporting System with role-based access control, analytics dashboards, and Excel/PDF export functionality for compliance tracking and data-driven decision-making.
- Actively contributed to system maintenance, feature enhancements, and production support across both platforms.

Domain-Specific Machine Learning Implementations

- Developed and deployed machine learning models for early disease detection, crop health monitoring, and predictive analytics.
- Contributed to broader ML initiatives across healthcare, agriculture, analytics, and enterprise workflow automation.
- Successfully supported the delivery of 15+ machine learning projects, including 4 full end-to-end model implementations, improving decision-making for stakeholders across multiple domains.

Clipzo.in (Videography Platform) · <https://clipzo.in>

- Designed and implemented a videography-focused scheduling platform using PHP and phpMyAdmin, enabling seamless portfolio uploads, client bookings, and project management.

Retrieval-Augmented Generation (RAG) Chatbot Development

- Built a Retrieval-Augmented Generation (RAG) chatbot using LLaMA 3.1 on the Ollama framework, enabling intelligent, context-aware responses powered by custom knowledge bases.

Education

Master of Computer Applications · Data Science
Jain (Deemed-to-be University)

May 2024 - Present

Bachelor of Computer Applications
SDM College of Business Management

Sep 2020 - Jul 2023

Skills

Programming Languages

[Python](#) [PHP](#)

Data Tools

[SQL](#) [Excel \(Advanced\)](#) [Power BI](#) [Tableau](#)

Frameworks & Libraries

[Flask](#) [Streamlit](#) [Gradio](#) [TensorFlow](#) [Pandas](#) [Numpy](#) [Seaborn](#) [Matplotlib](#) [Keras](#)

Tools & Technologies

[Web Application Development](#) [Databases](#) [Computer Vision](#) [Image Processing](#) [Data Analysis](#) [Data Visualization](#)
[Machine Learning](#) [Artificial Intelligence](#) [Ollama](#) [LangChain](#) [FAISS](#) [Vector Store](#)

Machine Learning Techniques

[Deep Learning](#) [Natural Language Processing \(NLP\)](#) [Convolutional Neural Networks \(CNN\)](#)
[Recurrent Neural Networks \(RNN\)](#) [Long Short-Term Memory \(LSTM\)](#) [Random Forest](#) [Decision Tree](#)
[Support Vector Machine \(SVM\)](#) [XGBoost](#) [Retrieval-Augmented Generation \(RAG\) with LLaMA 3.1 \(Ollama\)](#)

Extra-Curricular Activities

Mentored and conducted technical workshops across multiple engineering colleges on Python, AI, and Data Science tools, helping students build real-world problem-solving skills.
Organized and led university-level workshops on PHP and MySQL, delivering practical, hands-on training to large student groups.