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.