

RACHITHA ACHARYA

Python Developer | Junior Data Scientist | AI/ML & Application Development

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PROFESSIONAL SUMMARY

Target Role: Python Developer / Associate Python Developer — 2.8 years of professional experience as a Junior Data Scientist, with strong hands-on Python development, Flask-based ML application development, and SQL/MySQL application experience. Personally developed 17 end-to-end Python, Machine Learning, Flask, and Data Analysis projects, from data collection through model training and Flask-based integration, while training and guiding students through implementation. Contributed to real-world client applications in PHP/MySQL, including development, debugging, and maintenance work, and practically implemented an LLM-based chatbot using Python, Ollama, RAG, and ChromaDB. Also used Python scripting to clean and process approximately 32,000 records for a data-processing project.

TECHNICAL SKILLS

Programming Languages: Python, SQL, PHP, JavaScript, HTML, CSS

Python & Data Libraries: Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Matplotlib

Web/Application Development: Flask, Web Application Development, Authentication, Dashboard Development, Reporting Systems, Database Connectivity

Databases: MySQL, MongoDB, ChromaDB / Vector Database

AI & Generative AI: LLM, Ollama, RAG, ChromaDB, AI Chatbot Development, Generative AI, Conversational AI

Machine Learning: Data Preprocessing, Data Cleaning, Feature Engineering, Model Training, Model Testing/Evaluation, Predictive Analytics, Deep Learning, NLP

Development Tools: Git, GitHub, VS Code, PyCharm, Jupyter Notebook, Anaconda, Google Colab, Streamlit

Analytics & Visualization: Tableau, Power BI, Excel, Data Visualization

PROFESSIONAL EXPERIENCE

Junior Data Scientist

Sep 2023 – Apr 2026

Accolade Tech Solutions Pvt. Ltd. — Mangaluru, Karnataka

2.8 years

Python, Machine Learning & Student Project Development

- Personally developed 17 end-to-end Python, Machine Learning, Flask, and Data Analysis projects, while training and guiding students through project implementation.
- Handled data collection, data cleaning, preprocessing, and feature preparation ahead of model development for each project.
- Built, trained, and tested/evaluated Machine Learning models, then integrated trained models into applications using Flask.
- Debugged and troubleshooted project code across implementations to ensure reliable outputs.

Client Application Development & Maintenance

- Contributed development, enhancement, debugging, and maintenance work to 2 state-level Dental Council PHP/MySQL applications, including authentication, dashboards, reporting modules, appointment management, and Excel/PDF export functionality.
- Worked on chatbot functionality/modules and requested feature changes for the Dental Council projects.
- Contributed to a PHP/MySQL/JavaScript-based Financial Planning Application as part of the project team, developing the chatbot module and assigned application-side functionality.
- Contributed admin-side functionality to a project for a large media-based company, including areas such as donations, advertisements, receipt generation, notifications (including WhatsApp), and scheduling.

AI & Chatbot Development

- Practically implemented an LLM-based chatbot for a temple-based project using Python, Ollama, RAG, and ChromaDB as the vector database.

- Implemented retrieval-based conversational functionality using ChromaDB, then completed the implementation and handed the project over to another developer for further development and maintenance.

Data Processing

- Developed Python scripts to clean and process approximately 32,000 records for a Rotary Club-related data-processing project.

SELECTED PROJECTS

Temple-Based AI Chatbot | *Python, Ollama, RAG, ChromaDB*

- Implemented a practical LLM-based chatbot using Python, Ollama, RAG, and ChromaDB.
- Implemented retrieval-based conversational functionality using ChromaDB as the vector database, and handed over the completed project to another developer.

Financial Planning Application | *PHP, MySQL, JavaScript*

- Contributed to a PHP/MySQL-based financial planning web application as part of the project team.
- Developed the chatbot module and worked with MySQL-backed functionality and JavaScript within the application.

Dental Council Management System | *PHP, MySQL*

- Contributed development, enhancement, and debugging work across two state-level Dental Council web applications.
- Implemented appointment management, reporting modules, authentication, and Excel/PDF export functionality.

Machine Learning / Flask Project | *Python, Flask, Machine Learning*

- Built a predictive analytics model in Python, handling data preprocessing and feature engineering ahead of training.
- Integrated the trained model into an application using Flask as part of end-to-end project delivery.

EDUCATION

Master of Computer Applications (MCA) – Data Science	2024 – Present
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JAIN (Deemed-to-be University), India

- Applying MCA Data Science coursework directly to feature engineering, model evaluation, and predictive analytics work carried out in student AI/ML projects.
- Drawing on data science fundamentals from the program to inform dashboard design and data visualization choices in reporting work.

Bachelor of Computer Applications (BCA)	2020 – 2023
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SDM College of Business Management, India

ACHIEVEMENTS

- Personally developed 17 end-to-end student Python/ML/Flask projects, from data handling through model integration.
- Practically implemented an LLM/RAG chatbot using Python, Ollama, and ChromaDB.
- Cleaned and processed approximately 32,000 records using Python scripting.
- Participated in technical workshops related to Python and Artificial Intelligence.