# KOUNDINYA ACHYUTHUNI

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## OBJECTIVE

Highly skilled Python developer with expertise in Django, REST APIs, and machine learning. Experienced in designing and implementing innovative AI/ML models and algorithms. Passionate about leveraging technical skills to advance research and drive impactful solutions in a collaborative and dynamic research environment.

## SKILLS

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|---|---|
| Programming Languages: | Python, JavaScript, Java |
| AI Frameworks & ML Libraries: | LangChain, Autogen, Scikit-Learn, TensorFlow, Keras |
| Frameworks: | Django, REST API |
| Front-end: | HTML, CSS, Tkinter |
| Others: | MySQL, GIT |

## PROJECTS

AI POWERED DOCUMENT RETRIEVAL SYSTEM

- Developed a document retrieval and question-answering system using **LangChain, OpenAI GPT-4**, and **FAISS**. Conducted research-driven improvements in **context-aware query processing** by indexing and retrieving content from diverse document formats (PDF, DOCX, TXT). Optimized the system's ability to handle large datasets, enhancing response accuracy and user interaction in data-intensive environments.
- GitHub-link

MOVIE RECOMMENDATION SYSTEM

- Developed an interactive movie recommendation system using **Python**, **Pandas**, and **Scikit**-learn, with a focus on research-driven improvements in recommendation algorithms. Implemented text cleaning and vectorization of movie titles using **TfidfVectorizer**, and applied **cosine similarity** to generate recommendations based on user input. Enhanced recommendation accuracy by integrating user ratings data. Designed an interactive user interface with ipywidgets for real-time searches. Demonstrated strong skills in data preprocessing, machine learning, and algorithm optimization for real-world applications.
- GitHub-link

WEATHER DATA ANALYSIS & FORECASTING USING PYTHON

- Developed a weather data analysis and forecasting tool using **Python**, with a focus on data-driven research and predictive modeling. Cleaned and visualized datasets, addressed missing values, and employed **Ridge regression** to forecast future temperatures. Applied advanced techniques in data preprocessing, statistical analysis, and machine learning, demonstrating proficiency in **Pandas**, **Matplotlib**, and **Scikit-learn**.
- GitHub-link

## EDUCATION

- **Bachelors of Technology in Computer Science Engineering- Artificial Intelligence & Machine Learning |** Mahaveer Institute of Science & Technology | CGPA: 6.91 — 2020 - 2024

## PUBLICATIONS

A Review on Python Libraries to Develop Applications in all Domains — September - 2023