Rajat Malviya

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EDUCATION

Shri Ramswaroop Memorial University   Lucknow, India
B.tech in Computer Science   *Aug. 2023 – May 2027*

EXPERIENCE

Summer Intern   May 2024 – Aug 2024
Lendingkart   *Bangalore, India*
- Worked on full-stack development using React for the frontend and Spring Boot (Java 1.8) for the backend.
- Contributed to lenders' templates correction using web development tools such as HTML, CSS, JavaScript, and Apache Velocity.
- Developed and maintained backend services in Java with a focus on Spring Framework and Spring Boot.
- Utilized Git and GitHub for version control and collaborative development.
- Demonstrated strong soft skills, including teamwork, time management, and communication.

PROJECTS

ObesityPredictor | *Python, scikit-learn, Pandas, Matplotlib, Flask, TensorFlow, Keras*   April 2024
- Designed a predictive model to estimate obesity levels based on demographic data, dietary habits, physical activity, and other factors.
- Trained machine learning models using scikit-learn and TensorFlow, achieving an accuracy of 71%.
- Visualized predictions and insights using Matplotlib and Plotly for better understanding of obesity patterns.
- Built a web interface using Flask, HTML, CSS, and JavaScript for interactive user experience.
- Deployed the project using key libraries such as Flask, TensorFlow, Keras, and scikit-learn.

PDFy Chatbot | *Python, pgvector, LLAMA-3 API, LaTeX, Regular Expressions, PostgreSQL, LangChain* November 2024
- Developed a chatbot for college queries using vector embeddings and pgvector for efficient data retrieval.
- Utilized LLAMA-3 API for advanced natural language understanding and integrated it with LaTeX for extracting content from PDFs.
- Cleaned and formatted PDF data using regular expressions, generating embeddings and storing them in PostgreSQL for fast retrieval.
- Created a RAG (Retrieval-Augmented Generation) pipeline with LangChain, leveraging similarity methods to check the relevance of queries and generate appropriate responses.
- Optimized query responses by indexing frequently accessed information stored in PostgreSQL.

HONORS & AWARDS

Qualified **Joint Dakshana Entrance Test**, securing a 100% scholarship for JEE Advanced preparation.

Awarded the **Sitare Foundation Scholarship**, covering full tuition for B.Tech in Computer Science at Sitare University.

Recipient of the prestigious **Reliance Foundation & FFE Undergraduate Scholarship**, recognizing academic excellence.

TECHNICAL SKILLS

Languages: Java, Python, SQL (PostgreSQL, MySQL), NoSQL (MongoDB), JavaScript, HTML/CSS, Tailwind CSS

Frameworks: React, Flask

Developer Tools: Git, VS Code, PyCharm, IntelliJ

Libraries: Pandas, NumPy, NLTK, BeautifulSoup, Plotly, Gensim, Pgvector, LLAMA-3 API, LaTeX, Regular Expressions, PostgreSQL, LangChain

Operating Systems: Linux, Windows

Other Skills: Data Structures and Algorithms (DSA), Problem Solving (LeetCode)