Atharva Date

📞 +91 9987377889   ✉ b22ai045@iitj.ac.in
🐙 github.com/ADIITJ   in linkedin.com/in/atharva-date-a956b6256

EDUCATION

- **B.Tech. in AI and Data Science, Indian Institute of Technology, Jodhpur:**   Oct 2022 - Present
  CGPA- 7.61 (Ongoing).
- **JEE Advanced:**   Aug 2022
  Rank- 2638.
- **Senior Secondary (12th grade), SSKT Junior College of Science and Commerce:**   Mar 2022
  HSC, Percentage- 86%.
- **Secondary (10th grade), Euroschool Airoli:**   Mar 2020
  ICSE, Percentage- 98%.

RELEVANT COURSEWORK

Data Structures and Algorithms, Machine Learning, Probability and Statistics, Operating Systems,
Computer Networks, Computer Architecture.

WORK EXPERIENCE

Research Intern, E-Zest Solutions: Mar 2024 - Aug 2024

- Implemented RAG Double and Triple Sliding Window techniques for efficient chunking of unstructured data.
- Achieved 10% improvement in data processing speed.
- **Reference:** Shrijeet Polke (shrijeet.polke@e-zest.com).

PROJECT EXPERIENCE

- **Automatic Evaluation of Handwritten Answer Sheets:** Developed an automated system for evaluating handwritten answer sheets using image processing, OCR (trOCR), and machine learning techniques for grading with accuracy of 89%. [GitHub]
- **Wikipedia Information Extraction And RAG Prompt Generator:** Executed web scraping using Python to collect data from Wikipedia, improving question accuracy by 10%. [GitHub]
- **Object Detection:** Developed a system to detect objects using primitive methods, achieving an 85% accuracy rate. [GitHub]
- **Face Detection System With Webcam:** Implemented real-time face detection using OpenCV and Python, attaining a 90% detection rate. [GitHub]
- **From Scratch RAG Prompt Generator:** Created a prompt generator enhancing question answering accuracy by 10% using NLP techniques. [GitHub]

SKILLS

- **Programming Languages:** Python, C, C++, Java.
- **Data Analysis:** Data cleaning, data visualization (Matplotlib, Seaborn), statistical analysis (Pandas, NumPy).
- **Machine Learning:** ML models, Neural Networks (TensorFlow, Keras).
- **Software Development:** Algorithm Design, Data Structures.
- **Communication:** Effective conveyance of complex ideas.

POSITIONS OF RESPONSIBILITY

- **TEDx IIT Jodhpur, Curation Team:**   Dec 2023 - Present
  Spearheaded the selection of speakers and managed event logistics, ensuring a seamless TEDx event with high attendee satisfaction.
- **Google Developer Student Club - IIT Jodhpur, Core Member:**   Aug 2023 - Apr 2024
  Led an introductory session on AI, engaging over 100 first-year students and enhancing their understanding of the subject.
- **Prometeo - Techfest IIT Jodhpur, Entrepreneurship Team:**   Sep 2022 - Jan 2023
  Organized Entrepreneurial Events, managing Guest Relations, and executing Marketing strategies, resulting in increased participation and sponsorship.

RESEARCH WORK

- **Exploring Differential Privacy Techniques:**   Jul 2024 - Present
  Conducted research on enhancing data security and user privacy in federated networks.
- **RAG Double And Triple Sliding Window:**   Mar 2024 - Aug 2024
  Researched optimizing retrieval in collaboration with E-Zest solutions (total retrieval accuracy- 95%).