

Atharva Date

+91 9987377889 atharva.a.date@gmail.com
github.com/ADIITJ linkedin.com/in/atharva-date-a956b6256

EDUCATION

- **B.Tech. in AI and Data Science, Indian Institute of Technology, Jodhpur:** Oct 2022 - Present
CGPA- 7.38 (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

Deep Learning, Natural Language Understanding, Optimization in ML, Artificial Intelligence, Data Engineering, Data Structures and Algorithms, Pattern Recognition and Machine Learning, Probability and Statistics.

WORK EXPERIENCE

- **Research Intern, E-Zest Solutions:** Mar 2024 - Aug 2024
- Engineered RAG Double and Triple Sliding Window techniques for optimizing unstructured data processing and improved data processing speed by 10%.
- **Supervisor:** Shrijeet Polke (shrijeet.polke@e-zest.com).

PROJECT EXPERIENCE

- **Alex AI Assistant:** Built an AI voice/text assistant to implement voice-activated features for conversations, music, news, work management, and file/website access, boosting user efficiency by 35%. [GitHub]
- **Machine Learning Book Recommendation System:** Led machine learning-powered book recommendation platform leveraging Elasticsearch, MongoDB, and KNN algorithms, driving user satisfaction to 80%. [GitHub]
- **Automatic Handwritten Answer Sheet Evaluation System:** Developed an advanced grading mechanism leveraging image processing, OCR, and machine learning techniques, achieving 89% grading accuracy. [GitHub]
- **Wikipedia Information Extraction And RAG Prompt Generator:** Engineered intelligent web scraping for effective prompt generation using data from Wikipedia, improving question accuracy by 10%. [GitHub]
- **Foundational Object Detection:** Implemented a system to detect objects using only primitive methods, achieving an 85% accuracy rate. [GitHub]
- **Face Detection System With Webcam:** Designed real-time face detection using OpenCV and Python, attaining a 90% detection rate. [GitHub]

SKILLS

- **Programming Languages:** Python, C, C++, Java.
- **Data Engineering:** Database Management (MongoDB, PostgreSQL), Big Data Processing, Elasticsearch.
- **Machine Learning:** ML Algorithms, Neural Networks, Model Development (TensorFlow, Keras, scikit-learn).
- **Software Development:** Data Structures, Containerization (Docker), Algorithm Design.
- **Communication:** Effective conveyance of complex ideas.

POSITIONS OF RESPONSIBILITY

- **TEDx IIT Jodhpur, Curation Team, Head:** Curated and managed 12 speaker sessions, coordinating a team of 8 members and attracting 700+ attendees. Dec 2023 - Oct 2024
- **Google Developer Student Club - IIT Jodhpur, Core Member:** Led an introductory session on AI, engaging over 100+ students and enhancing their understanding of the subject. Aug 2023 - Apr 2024
- **Prometeo - Techfest IIT Jodhpur, Entrepreneurship Team:** Coordinated entrepreneurial events, guest relations, and executing marketing strategies, resulting in increased participation by 20%. Sep 2022 - Jan 2023

RESEARCH WORK

- **Implementing Differential Privacy Techniques:** Conducting research on enhancing data security and user privacy in federated networks by 34% using LPGNet. Dec 2024 - Present
- **RAG Double And Triple Sliding Window:** Researched and optimized retrieval in collaboration with E-Zest solutions (total retrieval accuracy- 95%). Mar 2024 - Aug 2024