ADITYA NARSALE

[](http://wa.me/9420119556) [9420119556](http://wa.me/9420119556) *| [](mailto:abnarsale@gmail.com)* [abnarsale@gmail.com](mailto:abnarsale@gmail.com) [adityanarsale](https://www.linkedin.com/in/aditya-narsale-455695214/) *| [](https://github.com/adityagit14)* [adityagit14](https://github.com/adityagit14)

Technical Skills

**Languages**: Python, JavaScript, HTML, CSS **Frameworks**: React, Node.js, Express.js, FastAPI, **Databases**: MySQL, MongoDB

**Version Control**: Git, GitHub

**Tools**: Smartsheet, Tableau, Excel, Google Sheets, Microsoft Power Platform

**Libraries**: pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, TensorFlow

**Core Subjects**: Data Structures and Algorithms, Operating Systems, Database Management Systems (DBMS), Computer Networks, Object-Oriented Programming (OOP)

**Methodologies**: Agile, Scrum

Education

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| **Vishwakarma Institute of Information Technology - Pune** | CGPA: 8.45 |
| *Bachelor of Technology in Artificial Intelligence and Data Science* | *2022 – 2026* |
| **Ahmednagar College - Ahmednagar** | CGPA: 6.91 |
| *Bachelor of Science (YCMOU)* | *2022 – 2025* |
| **Shri Dadasaheb Haribhau Ghadage Patil School - Nevasa, Ahmednagar** | Score: 88.33% |
| *Higher Secondary* | *2020 – 2022* |
| **Jawahar Navodaya Vidyalaya - Takali Dhokeshwar** | Score: 92% |
| *Secondary School* | *2015 – 2020* |

Projects

**Croptalk - Farmers Community Platform** *| React, Node.js, MongoDB, Tailwind CSS* July 2024 – May 2025

* Designed a platform for farmers to interact, share knowledge, and access support, with features like a post feed, image upload, and native language support (e.g., Marathi).
* Developed a responsive frontend using React and Tailwind CSS, ensuring accessibility and usability across devices.
* Built a scalable backend with Node.js and MongoDB to manage user data and enable real-time updates.

**Fertilizer Tracking and Reminder Automation System** *| Power BI, Power Automate Desktop, Excel, DAX* July 2025

* Designed and implemented a system to track fertilizer application schedules and automate reminders for upcoming applications using Power Automate Desktop workflows.
* Built an interactive Power BI dashboard to visualize application trends, pending tasks, and upcoming due schedules with clean, actionable insights.
* Planned extensions with Power Apps and Power Pages for mobile data entry, documenting workflows for future deployment despite environment constraints.

**Prescripto – Enhancing Clinical Decision Support Systems** *| Python, Selenium, RAG, LangChain*March 2025 – May 2025

* Built an automated pipeline to retrieve and parse open-access FDA-funded research articles from PubMed Central using Selenium, applying filters and downloading relevant PDFs.
* Implemented PyMuPDF for accurate text extraction from medical research PDFs to enable downstream NLP processing.
* Integrated a Retrieval-Augmented Generation (RAG) model using LangChain to query extracted medical texts and generate context-aware clinical responses.
* Enhanced clinical decision support by enabling multilingual, evidence-based search and summarization capabilities.

**Multilingual PDF Search System** *| Python, PyMuPDF, LangDetect, Deep Translator, Tkinter* Aug 2024 – Oct 2024

* Developed a multilingual search system to retrieve content from PDFs using NLP techniques like language detection and query translation.
* Designed an intuitive Tkinter-based GUI for uploading PDFs, entering queries, and viewing highlighted results in real time.
* Implemented PyMuPDF for text extraction and Deep Translator for query translation, enabling accurate multilingual searches.

Achievements

Content Writer & Cricket Analyst

**cricblog.net** *[June 2021 – June 2024]*

* Analyzed and wrote in-depth reports on cricket games, delivering actionable insights and performance reviews for an Australian-based sports platform.
* Utilized data-driven analysis to enhance the depth of content, showcasing a strong understanding of player statistics, team dynamics, and game strategies.
* Demonstrated advanced research skills and attention to detail, which aligns with skills in data analysis, a key component in Machine Learning (ML) methodologies for predictive modeling and trend recognition.

Certifications

* IBM Data Analyst (Coursera [](https://drive.google.com/file/d/1g8n4T9j4x1-FCEKhmkneSN9HNFLMxbEg/view?usp=sharing))
* Microsoft Power Platform Fundamentals (Coursera [](https://drive.google.com/file/d/1TjNOtykq5f05VeFUOfdG4o7NKIHQYujH/view?usp=sharing))
* TensorFlow 2.0 - Deep Learning and Artificial Intelligence(Udemy) [](https://drive.google.com/file/d/1ba7d2ok72IdO_I24_JZL2hu99h4_Z0Cy/view?usp=sharing))
* Certificate of participation in RCSC (HBSCE - tifr, Mumbai)