

Sarthak Dongare

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Education

University of AISSMS IOIT, B.Tech. in Artificial Intelligence & Data Science Nov 2022 – Nov 2026

- GPA: 7.3/10.0
- **Coursework:** Machine Learning, Deep Learning, Natural Language Processing, MLOps & Model Deployment, Data Structures & Algorithms

Experience

Data Analytics Virtual Internship at Deloitte (Forage) Jun 2025

- Conducted data cleaning and exploratory analysis using Excel and Python on client-simulated datasets.
- Built interactive dashboards and summarized KPIs to derive business insights.
- Communicated data-driven recommendations aligned with client goals and business value.
- **Certificate:** View Credential

Publications

Green Computing : Sustainable Development, Energy Efficiency, and IoT May 2025

Sarthak Dongare, *Ayush Lokre*, Ashutosh Khedkar
10.36948/ijfmr.2025.v07i03.41796

Personal Projects

PDFChatApp — Conversational AI for PDF Documents github

- Developed a Flask-based web application enabling users to upload multiple PDFs and interactively query document content using natural language, leveraging LangChain and OpenRouter APIs.
- Designed context-aware conversational querying using vector embeddings and similarity search to maintain conversation state and enhance user experience.
- Ensured scalable backend architecture to handle concurrent PDF uploads and user sessions with MongoDB for persistent chat history and session management.
- Integrated real-time user feedback loops for continuous improvement of chatbot responses and incorporated security best practices for document privacy.

Wildfire Image Classification using Deep Learning github

- Developed a Convolutional neural network (CNN) in TensorFlow/Keras to classify wildfire images with 96% test accuracy after 5 training epochs.
- Performed image preprocessing and augmentation using TensorFlow's image_dataset_from_directory API to efficiently load and batch data.
- Designed and trained a multi-layer CNN architecture with Conv2D, MaxPooling, Dropout, and Dense layers optimized for binary classification.
- Forged a standardized data environment using KaggleHub, reducing setup time for new machine learning projects from 2 days to 2 hours and improving data governance.

Skills & Technologies

Languages: Python, C++ , JavaScript, SQL

Databases: PostgreSQL, MongoDB

Web & Backend: Flask, Next.js, Django, Express.js

Cloud/DevOps: Docker, Vercel, GitHub Actions

ML/MLOps: TensorFlow, PyTorch, MLflow

Analytics: Pandas, NumPy, Power BI, Tableau