Ojas Dudhe

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SUMMARY

Data Scientist with hands-on experience building end-to-end ML pipelines across technology, healthcare, analytics and finance. MSc in **Artificial Intelligence** (**Merit**) from the **University of Sheffield**, with deep expertise in Python, NLP, LLMs, deep learning and ETL pipelines. Equally comfortable in a research environment and a commercial one with proven ability to translate complex model outputs into stakeholder-facing business decisions.**Eligible to work in the UK under Graduate Visa until 2028.**

EDUCATION

University of Sheffield **Sheffield, UK**

MSc in Artificial Intelligence *Graduation: Sept 2025*

Ramdeobaba University **Nagpur, India**

BTech in Electronics and Telecommunications *Graduation: July 2024*

WORK EXPERIENCE

RCOEM **Nagpur, India**

Research Assistant *Jan 2024 - Jul 2024*

- Contributed to the **development** of a novel **image denoising method** combining wavelet based techniques with spatial domain edge preservation.
- **Achieved superior edge preservation** and fine detail retention in denoised images, presented findings at **departmental level meetings** and **research groups**.
- **Skills developed** during this period and through this experience include **advanced image processing techniques, algorithm development** and implementation, **data analysis** and **performance metrics evaluation**, technical writing.

PROJECT EXPERIENCE

University of Sheffield **Sheffield,UK**

Machine Learning to Classify patterns in excitable Media *Jul 2025 - Sept 2025*

- Developed a deep learning pipeline using Deep Learning models to classify simulated cardiac wave patterns exhibiting in deep heart tissues, derived from simulation models such as FK4V, Courtemanche, and Shannon models, Implemented full data processing, augmentation, class balancing, and evaluation in python using Tensorflow, Numpy, Scikit-learn for arrhythmia and atrial fibrillation detection research.

University of Sheffield **Sheffield, UK**

Needle in the haystack: Finding sparse functional status information with LLMs *Jan 2025 - Mar 2025*

- Applied **Machine Learning** and **Natural Language Processing** techniques, including **K-Means Clustering**, **CNN-RNN**, and **Feedforward Neural Networks** to classify unstructured **MIMIC-IV** clinical text. Demonstrated transferable expertise in **data preprocessing**, **multi-class modeling**, and **interpretable AI** for **low-resource analytical environments**.

Ramdeobaba University **Nagpur, India**

Predictive Analytics: Supermarket Sales Forecasting *Jan 2024 - Feb 2024*

- Developed a **predictive analytics model** using **Random Forest, XGBoost, and LSTM neural networks** to **forecast supermarket product sales** with <5% MAE. Applied **feature engineering**, **data visualization**, and **model deployment** to enhance **inventory optimization** and **revenue forecasting**.

TECHNICAL SKILLS:

- **Programming:** Python, SQL, AWS, Tableau, Microsoft Power BI, Data Pipeline (ETL), Microsoft Office, Data Mining, Data Visualization, Data Integrity, Cloud Computing.
- **Interests:** Finance, Macroeconomics, Geopolitics, Data Governance, Policy Drafting, Financial Planning, Sustainable Development Goals, Robotics, Cricket.
- **Machine Learning:** Deep Learning, NLP, LLM Fine-Tuning, Predictive Analytics, Neural-Networks.
- **Languages:** English (IELTS: 8.0), German, Hindi, Marathi.