

DHRUVIL JOSHI

+1 930-904-3036 | joshidh@iu.edu | [LinkedIn: dhruviljoshi8](https://www.linkedin.com/in/dhruviljoshi8) | [GitHub: DAJ8112](https://github.com/DAJ8112)

EDUCATION

Indiana University – Bloomington

Masters of Science in Data Science

Aug 2024 – May 2026

CGPA – 3.6

DY Patil College of Engineering – Pune

Bachelor of Engineering in Artificial Intelligence & Data Science

Jun 2020 – May 2024

CGPA – 9.48

Coursework: Machine Learning, Statistics, Computer Vision, Database Technologies, Data Structures & Algorithms, Discrete Mathematics, Object Oriented Programming, Database Management System, Cloud Computing.

EXPERIENCE

Tata Technologies | *Python, OOP, TensorFlow, Computer Vision, Data Augmentation*

Mar 2023 – May 2023

Data Science Intern

Pune, India

- Engineered a spare part recommendation system using computer vision techniques that reduced manual search time and improved suggestion accuracy by 35%.
- Increased model accuracy by 20% by implementing data augmentation techniques and data annotation, expanding the training dataset by 3X.
- Automated data preprocessing and file management with Python scripts, reducing manual effort by 50% and decreasing processing time.
- Created documentation and detailed process flows to support cross functional team collaboration.

PROJECTS

X-ray Report Generation Assistance | *Python, TensorFlow, Computer Vision, Neural Networks* **Jan 2024 - May 2024**

- Collaborated in a team to develop an AI-driven preliminary X-ray report generation system utilizing a pre-trained Vision Transformer (ViT) encoder and GPT-2 decoder for automated medical reporting.
- Integrated Python backend API with Node.js front-end via FastAPI, ensuring connection between the AI model and UI.
- Demonstrated promising results, showing potential to streamline reporting with faster generation times by up to 2x times.

Student Test Score Predictor | *Python, Scikit-learn, MySQL, Flask, AWS, git*

May 2024 – Jul 2024

- Developed end-to-end ML pipeline using Python, extracting data from MySQL database to identify student performance patterns.
- Implemented multiple regression techniques with hyperparameter tuning, achieving 91% accuracy with XGBoost.
- Created Power BI dashboard visualizing feature importance and data correlations for educational decision support.
- Deployed Flask web app on AWS that predicts student math scores based on 8 key factors.

Cold Email Generator | *Gen-AI, LLM, ChromaDB, Open-source Llama 3.1, Streamlit*

Jan 2025 – Feb 2025

- Developed an AI-powered cold email generator using Llama 3.1 generative model that increased job application response rates by 80% through automatically personalized outreach based on job descriptions.
- Integrated ChromaDB vector database to enhance email personalization by retrieving relevant information matches.

SKILLS

- Languages:** Python (Pandas, Numpy, Matplotlib, Plotly, Seaborn, TensorFlow, Pytorch, Sklearn, OpenCV, Pillow, NLTK, Flask, Selenium, BeautifulSoup, Streamlit), JavaScript, C, C++, HTML, CSS, SQL, R
- Technical Skills:** Machine Learning, Deep Learning (Neural Networks, CNNs, Transformers), Computer Vision, LLMs
- Miscellaneous:** Docker, Git, GitHub, Linux, Bash, AWS, Power BI, MS Office (Word, Excel, PowerPoint)

CERTIFICATIONS

- Machine Learning Specialization ([Coursera](#))
- 100 Days of Code - Python Bootcamp ([Udemy](#))
- Deep Learning Specialization ([Coursera](#))
- Docker: Containerization for Development ([Codedamn](#))