

ARYA GOKHALE

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Education

Dwarkadas J. Sanghavi College of Engineering

2022 – 2026

B.Tech in Mechanical Engineering (Honours in Robotics)

9.07 CGPA

M.G.M. Junior College of Science

2021 – 2022

HSC in Science with IT (4th Rank, MHTCET - 96.01 percentile)

88.00%

Relevant Certifications and Coursework

- [Data Science and Machine Learning](#)
- [Deep Learning and NLP](#)
- [Kaggle Certifications](#)
- [Data Analytics](#)

Projects

Product Feature Extraction | *Pix2Struct, Python, PyTorch* | [Github](#)

- Implemented a script to efficiently automate the download of images, streamlining the dataset creation process.
- Fine-tuned the pix2struct model for domain-specific measurement extraction, optimizing GPU memory usage throughout training.
- Achieved a notable rank of 292 out of 70,000 participants (Amazon ML Challenge 2024).

Image Captcha Detection | *TROCR, PyTorch, Pandas* | [Github](#)

- Fine-tuned a model to solve Image Captcha Detection, leveraging advanced OCR techniques to interpret distorted and noisy captchas.
- Achieved 1st place in the DataBlitz - Opencode'24 competition organized by GeekHaven, IIIT Allahabad.
- Applied cutting-edge machine learning practices such as learning rate experimenting, showcasing creativity in model optimization and successfully adhering to strict no-API competition rules.

Financial Sentiment Analysis | *BERT, PyTorch, Streamlit* | [Github](#)

- Fine-tuned BERT for sentiment analysis in the financial domain, focusing on extracting insights from financial news, reports, and stock market data.
- Achieved 80% accuracy on the test set, demonstrating strong performance in classifying sentiments as positive, negative, or neutral.
- Deployed the model on Huggingface Spaces, creating an interactive web interface for real-time sentiment analysis on financial texts.

House Price Prediction | *Scikit-Learn, Seaborn, XGBoost, CatBoost, LightGBM* | [Github](#)

- Applied feature engineering and data visualization using Seaborn to explore key predictors.
- Built a model to predict house prices using multiple machine learning techniques.
- Deployed the model using Streamlit, creating an interactive web interface.

Fundamentals | *Tensorflow, PyTorch, TorchVision, Scikit-Learn, Seaborn, Matplotlib, NumPy, Pandas, AutoML*

- Kaggle Playgrounds (Traditional ML) | [Github](#)
- PyTorch and Computer Vision Fundamentals | [Github](#)
- NLP Fundamentals and Transformers | [Github](#)

Technical Skills

Languages : Python, C, SQL

Tools : VS Code, Google Colab, Kaggle, Jupyter

Technologies/Frameworks : Streamlit, Tensorflow, Keras, PyTorch, Huggingface Transformers

Achievements

- 1st place in DataBlitz - Opencode'24 (GeekHaven - IIIT Allahabad)
- Ranked 292nd out of 70,000+ participants in the Amazon ML Challenge 2024.
- Secured 6th place in the DJS NSDC Machine Learning Competition (99.42% F1 Score).
- Achieved Kaggle Expert status.