

MANIK YADAV

github.com/wlgn
[linkedin.com/in/manikyadav8](https://www.linkedin.com/in/manikyadav8)
[kaggle.com/wlg](https://www.kaggle.com/wlg)
codeforces.com/profile/wlg
manikyadav1729@gmail.com
[3210671350](https://www.instagram.com/3210671350)

EDUCATION

Delhi Technological University <i>B. Tech. Computer Science and Engineering</i>	June 2027 CGPA: 9.15
Central Board of Secondary Education (Class 12th) <i>Computer Science, Mathematics, Physics, Chemistry, English, Physical Education</i>	May 2023 Grade: 97.4 %
Central Board of Secondary Education (Class 10th) <i>English, Hindi, Mathematics, Science, Social Science, Sanskrit</i>	August 2021 Grade: 97.8 %

Courses :

- Summer School on AI from Machine Learning Research Lab, Delhi Technological University
- Machine Learning Specialisation from Stanford Online, DeepLearning.AI, Coursera
- Computer Vision- Build convolutional neural networks with TensorFlow and Keras from Kaggle

TECHNICAL SKILLS

Languages: C/C++, Python, Java, HTML, Tailwind CSS, JavaScript, TypeScript, MATLAB, Arduino, SQL, \LaTeX
Tools: Git/GitHub, VS Code, Google Cloud Platform, AutoCAD
Frameworks: React, Node.js, Flask, FastAPI
Libraries: PyTorch, Detectron2, Tensorflow, Keras, pandas, NumPy, Matplotlib, nltk, Scikit-Learn, OpenCV, Tkinter

PROJECTS

Lung Segmentation Github Link <i>Python, PyTorch, Detectron2</i> <ul style="list-style-type: none"> • Developed a high-performing lung segmentation model using the VESSEL12 dataset and Detectron2, achieving segmentation accuracy of 81.98% and bounding box accuracy of 93.62% on the test set. • Engineered preprocessing pipelines to extract 2D images from 3D .mhd files and converted masks into COCO format annotations for compatibility with Detectron2. • Conducted controlled and well-documented experiments with over 13 model configurations, implementing advanced architectures such as Mask R-CNN and Cascaded Mask R-CNN with ResNet and ResNeXt backbones. 	January 2025
Int-O-View Github Link <i>Python, TypeScript, React, Redux Toolkit, Express, Flask, MongoDB, Git</i> <ul style="list-style-type: none"> • Collaborated on a team project for the SIH internal Round, standing out among 200+ teams. • Engineered an AI-based interviewer application, integrating Groq and ChatGPT-4 for real-time interview simulations and evaluations, reducing interview time by 50%. • Constructed a comprehensive scoring system and dashboard to deliver detailed candidate performance metrics across 4 key areas, ensuring a consistent and unbiased interview process. 	August 2024
Summer ML Projects Github Link <i>Python, PyTorch, Transformers</i> <ul style="list-style-type: none"> • Developed a collection of 7 machine learning projects during the Summer School on AI by MLR, DTU, demonstrating core concepts in ML and deep learning. • Implemented a Generative Pre-trained Transformer 2 (GPT-2) from scratch for text generation and a Vision Transformer (ViT) for image classification. • Built 3 different image captioning models implementing "Where to put the Image in an Image Caption Generator" paper using a combination of CNN and RNN/LSTM architectures and trained on Flickr 8k images. 	June 2024

ACHIEVEMENTS

NTSE Scholar: Recognized for outstanding performance in the NCERT's national-level scholarship examination, placing among the top 1000 scholars.
Reliance Foundation Undergraduate Scholarship: Selected as one of 5,000 nationwide for academic support and leadership development.
CBSE Certificate of Merit in Mathematics: Achieved 100 in Mathematics, ranking in the top 0.1 % in the 2023 All India Secondary School Examination.