

# NICHAL HAAS

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## SUMMARY

Computer Science undergraduate with strong Java expertise and secondary skills in Python, AI, and ML. Experienced in building intelligent systems like real-time drowsiness detection and image captioning using CNN and LSTM. Skilled in OOP, DSA, and cross-platform tools like OpenCV and TensorFlow. Passionate about solving real-world problems and continuously growing technical knowledge.

## Technical Skills

**Languages:** Java, Python, C, HTML, CSS, JavaScript

**Frameworks/Libraries:** TensorFlow, Keras, PyTorch, OpenCV, Hugging Face, NLTK, NumPy, Pandas

**Concepts:** OOP, DSA, CNN, LSTM, NLP, Image Processing, Vision Transformers (ViT), Transfer Learning, Explainable AI

**Tools:** Git, GitHub, VS Code, Eclipse, Jupyter Notebook, Google Colab, Raspberry Pi, Kaggle

**LeetCode :** 350+ problems solved.

## Projects

### Skin Cancer Detection using Vision Transformers & LLMs

#### [GitHub:Capstone](#)

Developed a vision-language model combining ViT and BLIP for skin cancer classification with explainable outputs, using the ISIC dataset and transfer learning.

### Driver Drowsiness Detection System – Python, OpenCV, Raspberry Pi :

#### [GitHub: Stay Awake](#)

Built a real-time system on Raspberry Pi using OpenCV and Eye Aspect Ratio (EAR) to detect drowsiness and alert drivers.

### Image Captioning with Deep Learning – Python, TensorFlow, Keras, NLTK

#### [GitHub: Image Captioning](#)

Implemented a CNN–LSTM model to generate natural language captions for unseen images, trained on preprocessed dataset.

### MBTI Personality Prediction WebApp – HTML, CSS, JavaScript

Created a responsive web app to predict personality types using the MBTI framework, with clean UI/UX design.

## Certificates:

Machine Learning with AI – Internshala (Sep 2025)

Oracle Generative AI – Oracle (2025)

Data Structures and Algorithms Complete Course - JAVA

## Education

B.Tech in Computer Science and Engineering

Vellore Institute of Technology, Andhra Pradesh | 2022 – 2026 CGPA: 7.58

Relevant Courses: Data Structures, Algorithms, AI, Machine Learning, NLP, Computer Network