

# Haroon Naseer

haroon.naseer@iust.ac.in | LinkedIn | Github | Kaggle

Machine Learning Engineer with experience in building and optimizing ML models, developing training UIs, and analyzing real-world datasets. Proficient in Python, PyTorch, and Scikit-learn. Skilled in creating interactive tools and deploying models to mobile using TFLite. Strong foundation in ML algorithms, and passionate about Explainable and Ethical AI.

## Experience

**Machine Learning Intern** | Scikit-learn, numpy, pandas at *InternzValley - February '24 - April '24* with projects:

### 1. Heart Disease Classification

- Enhanced model accuracy from 80% to 85%, Precision 0.78 to 0.85 (No Disease) and 0.82 to 0.86 (Disease)
- Recall boosted from 0.78 to 0.81 (No Disease) and 0.82 to 0.88 (Disease)

### 2. Titanic Data Analysis

- Found correlation between ticket class and survival: 63% of 1st class, 48% of 2nd class, and 25% of 3rd class passengers survived
- Gender and survival rates: 73% of females and 20% of males survived and age group analysis: Higher survival for ages 0-10, lowest for ages 60-80

## Skills

- **Languages:** Python, C++, Java
- **Libraries:** Numpy, Pandas, Matplotlib, Scikit-learn, TensorFlow, PyTorch
- **Tools:** Jupyter Notebooks, Git, CLI
- **Interest:** Explainable AI, Ethical AI, AGI Research

## Projects

### 1. Animal Classification

- Achieved 99.8% accuracy using transfer learning with MobileNet v2 to classify images based on animal species.

### 2. PyTorchForge

- Built a low-code platform for creating Deep Learning pipelines using a visual interface with minimal coding.
- Sped-up and reduced boilerplate code for different DL tasks such as Image, Text, Audio with classification, segmentation, generation etc.

## Acheivements

### • Hackathon Winner – PriceWise

- Python, Streamlit, CLIP | [demo](#)
  - \* Built a unified product comparison tool using Python and Streamlit during AndinoHack2025, July 2025, organized by AndinoLabs
  - \* Integrated OpenAI CLIP for image-based product search; enabled users to upload photos to retrieve similar listings
  - \* Implemented wait-time estimation logic to advise users on better purchase periods using historical pricing data

## Education

### B.Tech in Computer Science and Engineering

IUST Awantipora J&K

Autumn 2021 - 2025

**Relevant Courses :** OOPS, Software Engineering, DSA, Operating Systems, DBMS, Computer Networks, Java Programming, Computer Architecture and Organisation, Artificial Intelligence, Soft Computing, Compiler Design, Applied Linear Algebra, Digital Image Processing, and Cryptography.

## Certifications

Google Data Analytics | Machine Learning Specialization | Deep Learning Specialization |  
Explainable AI Specialization