

Haroon Naseer

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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 | Python, Tensorflow, PyQt5, and Flutter with Tflite for Android UI

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

2. PyTorchForge | Python, FastAPI, Pydantic, Jinja2, Tauri, React

- 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.

Achievements

- **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