

# Tushar Yadav

Aspiring Data Scientist | Machine Learning Engineer

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 [GitHub](#) | [LinkedIn](#) | [Portfolio](#)

## Summary

Aspiring Data Scientist with practical experience in developing end-to-end ML solutions using Python, SQL, Scikit-learn, TensorFlow, and Streamlit. Skilled in supervised and unsupervised learning, deep learning (CNN), data analysis, and cloud-based ML deployment (Azure). Passionate about solving real-world problems through automation, predictive modeling, and user-friendly AI applications.

## Technical Skills

- Languages: Python, Java, SQL
- Libraries/Tools: Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn, TensorFlow, Keras
- Concepts: Supervised/Unsupervised Learning, ANN, CNN, Model Evaluation, Data Analysis
- Platforms: Streamlit, Microsoft Azure (AI-900 Certified)
- Database: SQLite, SQL
- Other: Git, GitHub, Jupyter Notebook

## Experience

### Machine Learning Trainee

Intrainz Innovation Pvt. Ltd. | Jul – Aug 2024

- Developed a real-time online payment fraud detection system using supervised ML algorithms
- Analyzed transaction patterns to identify anomalies and reduce financial risks
- Applied feature engineering and model evaluation techniques for accuracy improvement

### AI & ML Intern

The Northcap University (Azure AI Platform) | Jun – Jul 2024

- Built chatbot applications using Azure Cognitive Services and Conversational AI tools
- Completed Microsoft AI-900 certification, gaining expertise in Azure ML and cloud-based deployments
- Implemented real-time ML workflows with datasets on Azure

## Projects

### Cancer Diagnosis Assistant [Github](#) [Live app](#)

- Built a self-learning prediction tool using Random Forest; deployed with Streamlit UI
- System collects inputs, stores them in a database, and retrains automatically for continuous improvement
- Tools: Python, SQL, Streamlit, GitHub

### Smart Farming Assistant [Github](#) [Live app](#)

- Crop recommender using environmental parameters and disease detection using CNN on leaf images
- Hosted with Streamlit and Hugging Face for interactive access
- Tools: CNN, Streamlit, Hugging Face

### Satellite Image Land Use Classification [Github](#) [Live app](#)

- Designed a deep learning model to classify satellite imagery into urban, water, forest, and agricultural areas
- Developed with TensorFlow and deployed using Streamlit
- Tools: CNN, TensorFlow, Streamlit

## Education

B.Tech in Computer Science, The Northcap University – 2021–2025

Relevant Courses: SQL, AI & ML, Data Structures, DBMS

**Certification :** Microsoft Certified: Azure AI Fundamentals (AI-900) – 2024