

HARSHIT TIWARI

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EDUCATION

Indian Institute of Technology Kharagpur

M.Tech in Agricultural Systems and Management

2026

CGPA: 8.34/10.0

S.V.P.U.A.T, Meerut

B.Tech in Agricultural Engineering

2023

CGPA: 8.398/10.0

INTERNSHIP

Euphoria Infotech India Limited

Generative AI Intern

May 2025 – July 2025

- Designed and built a multilingual query chatbot for legal and ed-tech domains, enabling conversational Q&A on complex PDF documents.
- Engineered the end-to-end RAG pipeline using LangChain, integrating OCR for scanned files, a ChromaDB vectorstore, and history-aware retrieval to ensure contextual accuracy.
- Contributed to an AI document scanner, improving alignment and reducing scan errors by 15% via page skew detection and OCR for printed and handwritten scanned files.

PROJECTS

Impact of Soil Quality on Crop Growth Analysis | *Pandas, Scikit-learn, Matplotlib* Prof. Subhamoy Mandal

- Developed a data-driven crop recommendation system using Python for data analysis and visualization.
- Leveraged ML models like K-Nearest Neighbors and K-Means clustering for accurate crop recommendations.
- Conducted statistical analysis with hexbin/scatter plots to visualize optimal conditions for precision agriculture.

Image Classifier using Convolutional Neural Networks (CNN) | *CNN, TensorFlow, OpenCV* Self Project

- Developed a CNN image classifier, achieving 96% validation accuracy through strategic data augmentation.
- Optimized the model using the Adam optimizer and evaluated performance with various accuracy metrics.
- Integrated OpenCV for image preprocessing and deployed the model for effective real-time predictions.

Email / SMS Spam Classifier | *Python, Scikit-learn, NLTK, TF-IDF* Self Project

- Executed comprehensive data preprocessing including text normalization, handling missing values, and deduplication.
- Built a text pipeline with tokenization and TF-IDF to train Naive Bayes, Logistic Regression, and KNN models.
- Achieved 98% precision by optimizing models via cross-validation and hyperparameter tuning.

TECHNICAL SKILLS

Programming Languages: Python, SQL

Libraries & Frameworks: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, NLTK, TensorFlow, Plotly, Flask, Streamlit, LangChain

Technical Skills: Natural language Processing, Machine Learning, Deep Learning, RAG, OCR, Statistics, MCP, Feature Engineering, EDA, Data Cleaning

Tools & Platforms: MySQL, GitHub, Google Colab, VS Code, Jupyter Notebook, PyCharm, MS Office

Soft Skills: Time Management, Problem Solving, Teamwork, Adaptability, Communication, Critical Thinking

RELEVANT COURSEWORK

AI Applications in Agriculture | Introduction to Programing | Geo-Informatics for Land & Water Resources | Digital Soil Mapping | Systems Approach in Agriculture | Agricultural Systems Modelling

CERTIFICATIONS

Databases and SQL for Data Science with Python

Coursera

Complete Data Science, Machine Learning, Deep Learning, NLP, Bootcamp

Udemy

Complete Data Analyst Bootcamp from Basics to Advanced

Udemy