Swastik Gavhane
Data Science & Machine Learning Engineer

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Summary

Data Science and Machine Learning Engineer with strong hands-on experience in data analysis, machine learning model development, and deployment. Proficient in Python, SQL, and deep learning frameworks. Experienced in building scalable ML solutions and translating data into actionable insights. Certified **AI–Machine Learning Engineer (A-Grade), NASSCOM–NCVET (NSQF Level 5)**.

Work Experience

AI & Machine Learning Engineer Trainee   *March 2024 – July 2024*
PMKVY (NCVET–NASSCOM), NSQF Level 5

- Completed 480+ hours of industry-aligned training in ML, Deep Learning, and Data Analytics.
- Built and evaluated ML models including classification, regression, and CNN-based solutions.
- Performed data preprocessing, feature engineering, model tuning, and validation.
- Deployed ML models using Flask-based REST APIs.

Data Science Intern   *June 2024 – sept 2024*
Indian Institute of Technology (IIT) – Academic Internship

- Conducted data cleaning, EDA, and statistical analysis on structured datasets.
- Implemented ML algorithms for predictive analysis and performance evaluation.

Technical Skills

ML & AI:	Pandas, NumPy, Scikit-learn, TensorFlow, Keras, OpenCV, CNN, ETL
Visualization:	Tableau, Power BI, Matplotlib, Seaborn
Deployment:	Flask, FastAPI, Streamlit
Programming:	Python, SQL
Tools:	Git, Jupyter, VS Code, Kaggle, Excel

Projects

Agritech Suite – AI Driven Solution

- Developed CNN-based plant disease detection (95% accuracy) using PlantVillage dataset.
- Built REST APIs for crop recommendation, fertilizer prediction, and weather integration.
- Designed user-friendly dashboards to visualize agricultural insights.
- Built APIs for crop, fertilizer recommendation and weather integration.

GPT-2 Text Generation

- Fine-tuned GPT-2 using KerasNLP and improved text coherence via preprocessing.
- Improved text coherence through preprocessing and hyperparameter tuning.

Education

B.Tech in Computer Science Engineering (Data Science)
D.Y. Patil College, Kolhapur   *2021 – 2025*
CGPA: 8.5/10
Relevant Coursework: Machine Learning, Deep Learning, DBMS, Probability & Statistics, Time Series Forecasting, Text Mining

Certifications

- AI–Machine Learning Engineer (A-Grade) – NASSCOM / NCVET
- Python for Data Science – IIT Madras (NPTEL)
- Big Data Computing – IIT Kanpur (NPTEL)
- Data Analytics with Python – IIT Roorkee (NPTEL)