MANTHAN SINGH

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PROFESSIONAL SUMMARY

Machine Learning Engineer skilled in building end-to-end ML systems, including automated pipelines, time-series forecasting, and real-time deployment using FastAPI and Streamlit. Experienced in optimizing models and delivering scalable data-driven solutions.

TECHNICAL SKILLS

Programming: Python, SQL.
Machine Learning : Supervised & Unsupervised Learning, Regression & Classification, Feature Engineering, Hyperparameter Tuning, Model Evaluation.
Deep Learning: ANN, CNN, RNN, LSTM.
NLP: Text Preprocessing.
Databases: MySQL.
Libraries & Frameworks: Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib, Seaborn, NLTK, Optuna.
Tools & Platform: Git, LangChain, FastAPI, Docker.

PROFESSIONAL EXPERIENCE

AI/ML Intern | Excellence Technology **June 2025 – Aug 2025**

- Developed a real-time hand gesture recognition system using TensorFlow and OpenCV, improving model performance through preprocessing and model tuning
- Built and tested ML models for image-based classification tasks, gaining hands-on experience in deep learning workflows
- Applied data preprocessing, visualization, and model evaluation techniques on real-world datasets

PROJECTS

AutoDML(Automated Data Mining and Machine Learning) | Github | Live

- Built an end-to-end automated ML pipeline handling data preprocessing, feature engineering, model training, and evaluation, reducing manual effort by 50%.
- Integrated ML algorithms with automated hyperparameter tuning , improving model performance by 15–25%
- Deployed on AWS EC2 server using FastAPI and Docker, and connected the API to a Streamlit web app.

Stock Price Forecasting using LSTM (Deep Learning) | Github

- Developed an LSTM-based time series model achieving 80–85% prediction accuracy on NSE stock market data.
- Deployed a Streamlit web application supporting real-time predictions and dynamic visualization.
- Improved forecasting reliability by 20% through data normalization and sequence modeling techniques

Global Superstore Data Analysis | Github

- Performed exploratory data analysis to identify sales trends, customer behavior, and product performance.
- Built insightful visualizations to support data-driven business decisions.
- Analyzed regional and category-level performance using Python analytics tools.
- Generated 10+ visualizations improving business insight clarity.

CERTIFICATIONS

Complete Machine Learning, Deep Learning, NLP Bootcamp (Udemy)

• Completed an intensive bootcamp covering core concepts of Machine Learning, Deep Learning, and Natural Language Processing.

Data Science Certification (Internshala)

• Learned Python fundamentals including OOP, Data Analysis and Regression models.
Gained practical knowledge by working on a project.

KEY ACHIEVEMENTS

- Built and deployed end-to-end ML applications with real-time prediction capabilities.
- Designed an automated ML system (AutoDML) reducing manual effort in model building workflows by 50%.
- Gained hands-on experience in deploying scalable ML systems using FastAPI, Docker, and AWS EC2.

EDUCATION

Bachelor of Technology (CSE) **Sep 2022 – June 2026**
Government College Dharamshala | CGPA: 7.18
Class XII (CBSE): 86.6% **June 2022**
Class X (CBSE): 85.2% **June 2020**