

Devansh Singh

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Professional Summary

AI/ML enthusiast with hands-on experience in developing and deploying deep learning and NLP solutions across real-world domains like legal tech, healthcare, and recommendation systems. Skilled in building end-to-end pipelines using CNNs, LSTMs, and Transformers—achieving up to 92% model accuracy and reducing manual effort by 70%. Passionate about solving complex problems with scalable, user-focused AI tools backed by measurable results.

Education

B. Tech in Computer Science Engineering

SRM University, Delhi-NCR Campus | Aug 2023 - June 2027

CGPA: 8.90

Notable Coursework: Machine Learning, Algorithms, Operating Systems

Skills

Machine Learning & AI:

CNN · LSTM · NLP · Transformers · Recommender Systems · Time Series · Computer Vision · GenAI · Prompt Engineering

Tools & Libraries:

Python · TensorFlow · Keras · scikit-learn · spaCy · OpenCV · Hugging Face · SQL · MySQL

Development & Deployment:

Streamlit · Flask · Tkinter · Google Colab · Jupyter · Git · Agile Workflow · Model Evaluation (Precision, Recall, NDCG)

Experience

AI Intern

CodeClause (1 month) | March 2025 – April 2025

- **Built** an OCR-powered chatbot for legal/conversational queries—enhanced relevance by ~20%.
- **Engineered** a Streamlit UI + TensorFlow CNN, achieving ~90% accuracy on CIFAR-10/Fashion-MNIST.
- **Deployed** a spaCy/Transformer-based document summarizer—cut review time by ~30%.

Machine Learning & AI Intern

Tamizhan Skills (Remote, India) | Ongoing | Offer Letter Available

- **Developed** a Loan Eligibility Predictor (85% accuracy) with end-to-end pipeline & UI.
- **Created** a Tkinter MNIST digit GUI (98% accuracy), showcasing full-stack ML deployment.
- **Implemented** NLP classifiers: Emotion Detection (~88% F1), Spam & Fake-News (~90% accuracy).
- **Built** an LSTM-based Stock Predictor—boosted forecast accuracy by ~15%.
- **Engineered** Plant Disease Detection CNN (~92% real-world accuracy).

Machine Learning Intern

Ascendix IT (Remote, India) | Ongoing | Offer Letter Available

- **Architected** a hybrid recommender with Streamlit—improved Precision@K by ~15%.
- **Implemented** a food-calorie estimator (CV + regression)—achieved ~85% prediction accuracy.

Projects

Hybrid Recommendation System | Python, Pandas, scikit-learn, Streamlit

https://github.com/DevanshSraiput/Hybrid_Recommendation_System

- Developed a recommender combining collaborative and content-based filtering with interactive Streamlit UI.
- Achieved ~15% improvement in Precision@10, enhancing user personalization and engagement.
- Integrated metrics tracking (Recall, NDCG) to evaluate model performance in real-time.

Document Analyst Agent | Python – LLM (GPT/DSPy) – multi-agent pipeline

https://github.com/DevanshSraiput/Dataa_Analyst_Agent

- Engineered an LLM-driven tool for document summarization, OCR, data extraction, and Q&A.
- Delivered seamless interaction and insights through a dynamic Streamlit interface with built-in visualizations.

Stock Price Predictor (LSTM) | TensorFlow, Keras, NumPy, Time Series

<https://github.com/DevanshSraiput/Stock-Price-Prediction-LSTM>

- Engineered an LSTM-based model trained on 5 years of stock data, outperforming baseline regressors by ~15%.
- Visualized trends and predictions using Matplotlib, offering an intuitive financial forecasting tool.
- Applied sequence modelling concepts with deep learning for temporal data prediction.

Certifications

- **Deep Learning for Developers – Infosys Springboard** (June 2025)
CNNs, RNNs, transfer learning, and deployment pipelines using TensorRT.
- **Intro to Data Science – Infosys Springboard** (Apr 2025)
Data wrangling, visualization, and ML workflows using Python & Pandas.
- **Big Data & Data Science Bootcamp – Ministry of Electronics & IT** (Jan 2025)
6-week certified program covering Hadoop, Spark, SQL; included tests & weekly offline labs.
- **GenAI for Professionals – Udemy** (Apr 2025)
Prompt engineering and building GenAI applications with OpenAI APIs.
- **Computer Vision 101 – Infosys Springboard** (June 2025)
Introduced to image processing, CNNs, and key applications like classification and object detection.

Achievements

- 2nd Place – **AutoCoder Hackathon**: Built a GPT-powered storytelling platform in 9 hours (100+ teams).
- 2nd Place – **Prompt Rush**: Deployed a Storybook style site with AI tools under 3-hour challenge.
- Featured in **Vigyan Darpan** for articles on Sustainable AI applications for India.
- Hackathon Finalist – **Hackstasy**: Recognized for innovative Text to 3D Application under 48hrs.