

Darshan A

Aspiring AI/ML Engineer | Python · TensorFlow · Scikit-Learn · Deep Learning · NLP

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PROFESSIONAL SUMMARY

Motivated B.E. student specializing in **Artificial Intelligence and Machine Learning**, with hands-on experience building ML models, data pipelines, and deep learning applications using **Python, TensorFlow, and Scikit-Learn**. Passionate about solving real-world problems through intelligent systems. Actively developing projects in **NLP, Computer Vision, and Predictive Analytics** while strengthening DSA and software engineering fundamentals.

SKILLS

Languages: Python, SQL, Java (basics), JavaScript (basics)

AI/ML Frameworks: TensorFlow, Keras, Scikit-Learn, PyTorch (basics), OpenCV

Data & Analytics: NumPy, Pandas, Matplotlib, Seaborn, Jupyter Notebook

NLP & GenAI: NLTK, spaCy, Hugging Face Transformers (basics), LangChain (basics)

Database: MySQL, PostgreSQL, MongoDB

Tools & DevOps: Git, GitHub, Google Colab, VS Code, Docker (basics), Maven

Competencies: Problem Solving | Analytical Thinking | Research Mindset | Adaptability

PROJECTS

Sentiment Analysis Web App

2024

Python · Flask · NLTK · Scikit-Learn · Logistic Regression · TF-IDF · [View on GitHub](#)

- Built a sentiment analysis web app that classifies user-submitted text as positive, negative, or neutral using a **Logistic Regression model** trained on the IMDB movie reviews dataset.
- Applied **TF-IDF vectorization** and text preprocessing (tokenization, stopwords removal, lemmatization) using NLTK, achieving **88% classification accuracy** on the test set.
- Deployed the model via a **Flask REST API**, enabling real-time predictions through a clean web interface.
- Visualized model performance using **confusion matrix and ROC curves** with Matplotlib and Seaborn for evaluation insights.

Image Classification using CNN

2024 – Present

Python · TensorFlow · Keras · CNN · OpenCV · Google Colab · [View on GitHub](#)

- Designing a **Convolutional Neural Network (CNN)** using TensorFlow/Keras to classify images across 10 categories from the CIFAR-10 dataset.
- Implementing **data augmentation techniques** (flipping, rotation, zoom) to improve model generalization and reduce overfitting.
- Applied **Batch Normalization and Dropout layers** to stabilize training and improve validation accuracy to **82%+**.
- Using **OpenCV** for image preprocessing and visualizing feature maps to interpret what the CNN learns at each layer.
- Training and iterating on **Google Colab with GPU acceleration**, tracking metrics with TensorBoard for real-time performance monitoring.

EXPERIENCE / INTERNSHIPS

Open to AI/ML Internship Opportunities

Actively seeking an AI/ML internship to work on real datasets, contribute to production-grade models, and learn applied machine learning in a team environment beyond self-directed project building.

ACHIEVEMENTS

- Solved 200+ DSA problems** on LeetCode and HackerRank, strengthening algorithmic thinking and problem-solving skills.
- Completed **hands-on ML projects** independently — from data preprocessing to model deployment — demonstrating end-to-end AI/ML pipeline knowledge.
- Actively participating in **Kaggle competitions** to benchmark ML skills against real-world datasets and global participants.

- Consistently exploring **research papers on NLP and Computer Vision** (arXiv, Papers With Code) to stay current with state-of-the-art techniques.

EDUCATION

B.E. — Artificial Intelligence and Machine Learning

Expected: 2027

Ghousia College of Engineering

12th — PUC (Science)

77.5%

Mahesh PU College

10th — SSLC

79.5%

Kanya Kumari High School

CERTIFICATIONS

- **Machine Learning Specialization** — Andrew Ng, Coursera (in progress)
- **Python for Everybody Specialization** — University of Michigan, Coursera
- **Deep Learning with TensorFlow** — IBM / Coursera (in progress)
- **SQL for Data Analysis** — self-study / HackerRank certified