

# SNEHLATA KUMARI

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## PROFILE SUMMARY

Motivated AI/ML Engineer with hands-on experience in Computer Vision, NLP, LLMs, and MLOps, specializing in Vision Transformers, RAG systems, and scalable ML pipelines. Achieved 93.6% accuracy on 10,000+ samples using PyTorch and improved inference performance by 20%. Skilled in model deployment, hyperparameter tuning, and real-time ML systems using FastAPI and MLflow.

## WORK EXPERIENCE

**Software Developer Intern** Sep 2025 – Dec 2025  
*Owision* Remote, India

- Developed scalable **backend features** using **Stripe APIs** and data pipelines, improving reporting efficiency by **25%**.
- Tested and validated **REST APIs** via Postman and Swagger UI, reducing platform errors by **30%** in Skillioz.
- Optimized **API workflows** and filtering systems in Agile teams, boosting data consistency and performance by **20%**.

**AI/ML Research Intern** Jun 2025 – Jul 2025  
*NIT Bhopal* Bhopal, India

- Developed and trained a **Vision Transformer (ViT)** in **PyTorch** for satellite image classification on **10,000+** samples.
- Achieved **93.6% accuracy** via **hyperparameter tuning**, statistical analysis, and **feature engineering**.
- Improved model performance by **20%** through systematic **model optimization** and supervised learning techniques.

## PROJECTS

**LexAnalyze: Legal Risk Detection** | 🌐 | [Live Demo](#) Jan 2026 – Mar 2026

- Developed **NLP pipeline** using **spaCy** for clause extraction and named entity recognition (parties, dates, amounts).
- Engineered **keyword-based risk classification** (High/Medium/Low) with weighted term attribution for high-risk legal terms.
- Integrated **LLM-powered** legal text simplification via **Groq LLaMA3** with regex-based fallback.

**Explainable RAG** | 🌐 | *LLaMA, FAISS, FastAPI, LangChain* Jan 2026 – Feb 2026

- Built a **RAG pipeline** combining **FAISS** semantic search and **BM25** retrieval for accurate **document QA**.
- Implemented **cross-encoder reranking** with **sentence-transformers**, improving context relevance and reducing hallucinations.
- Enabled explainability via source citations and confidence scoring for transparent **LLM-based** generation.

**Stock MLOps Pipeline** | 🌐 | *Python, MLflow, XGBoost, Scikit-learn* Apr 2025 – May 2025

- Engineered an end-to-end **MLOps workflow** covering data ingestion, **feature engineering**, training, and inference.
- Integrated **MLflow** for experiment tracking, **model versioning**, and a production-ready model registry.
- Designed **data drift monitoring** and automated retraining pipelines for dynamic **time-series** stock data.

## TECHNICAL SKILLS

**Languages & Databases:** Python, C, MySQL, MongoDB

**Frameworks & Libraries:** PyTorch, TensorFlow, Scikit-learn, FastAPI, Streamlit

**AI/ML & Deep Learning:** CNNs, RNNs, Transformer Architectures, Feature Engineering, Hyperparameter Tuning

**Generative AI & NLP:** RAG, LLaMA, LangChain, FAISS, Prompt Engineering, Semantic Search

**Tools & Platforms:** MLflow, Docker, AWS (EC2, S3), CI/CD, Git, Postman, GitHub, Tableau

## EDUCATION

**Silicon University** Sep 2023 – Present  
B.Tech in Computer Engineering CGPA - 9.25

## ACHIEVEMENTS

- Solved **500+** **DSA problems** on **LeetCode** and **GeeksforGeeks**, mastering algorithms and data structures.
- Secured **2nd rank** in ECOHACK Hackathon organized by the Ecosocial Club of Silicon University.
- Cleared **Round 1 of Smart India Hackathon 2025**, showcasing innovation and collaborative problem-solving.
- Led organization of **Developer Summit 2.0** and *Circus of Clues* with **200+** **participants** as event lead.
- **SHEFI S16 Scholar** and **HerbalLife Scholar** from IIT Madras.
- Member of **Silicon Achiever's Club** recognized for academics and extra-curricular excellence.