Parveen Kashyap

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Education

Chandigarh University **Jul 2023 - Jun 2025**
Master of Computer Applications in Artificial Intelligence & Machine Learning | *CGPA:* ***7.76*** *Punjab, India*

Kurukshetra University **May 2020 - Jun 2023**
Bachelor of Computer Applications | *Percentage:* ***72.69*** *Haryana, India*

Work Experience

ResoluteAI Software Private Limited **Aug 2025 - Dec 2025**
AI Engineer Intern *Remote*

- Engineered an **AI governance system** detecting **5 discrimination types** across **100+ loan applications** via a **FastAPI/SQLite** backend and **Gemini Flash** to enable real-time **compliance auditing**
- Developed a **RAG medical chatbot** achieving **95%+ accuracy** by implementing **Pinecone** and **Sentence Transformers** for **context-aware retrieval**, transitioning early-stage prototypes into **production-ready** systems
- Built an **optimized CV pipeline** with **90%+ accuracy** using **YOLOv8** and **EasyOCR**, applying **ROI-based filtering** and **inference tuning** to automate data extraction from complex **invoice tables**

Applied Machine Learning Programs (Unified Mentor & MedTourEasy) **June 2025 - Dec 2025**
Machine Learning Trainee *Remote*

- Completed intensive, **mentor-led** programs involving **9 end-to-end ML projects** across two organizations, focusing on **model deployment** and **production-ready** code architectures
- Developed an **ASL recognition system** achieving **98% test accuracy** by implementing **Transfer Learning (MobileNetV2)** and custom **CNNs** in **TensorFlow**, deploying the model as a real-time **Streamlit** web application
- Optimized **multi-class classification** for forest cover types to **90.24% accuracy** by benchmarking 7 algorithms using **Scikit-Learn pipelines**, **GridSearchCV**, and **Extra Trees** ensemble methods for model selection
- Engineered **automated ML pipelines** for fraud and medical datasets by implementing **temporal feature engineering** and **Random Forest** models, enabling batch processing and inference via **Streamlit** interfaces

Projects

NetGuard | *Source Code* **TensorFlow/Keras | Scikit-learn | LSTM | ANN | Pandas | RFE | Joblib**

- Engineered a **hybrid ANN-LSTM ensemble** achieving **98.41% threat detection accuracy** while utilizing **RFE** to reduce the feature space by **87%**, optimizing real-time processing for high-throughput network traffic
- Classified **15 attack types** with **99.7% accuracy** on **2.5M+ samples**, integrating a self-healing **remediation engine** that decreased response time (**MTTR**) from 5 minutes to **under 100ms** via automated IP blocking

DocsMind | *live* | *Source Code* **LangChain | Streamlit | FAISS | HuggingFace | Google Gemini | RAG | LCEL**

- Engineered a **production RAG pipeline** using **LangChain LCEL** and **FAISS**, achieving **sub-second latency** via **token streaming** and managing **10+ Gemini models** with a **resilient fallback** to process 50-page docs in **5s**

TalentVector | *live* | *Source Code* **Scikit-Learn | NLP | SQLite | Streamlit | PyPDF | Pandas | Cryptography**

- Developed a **full-stack AI screening platform** using **TF-IDF** and **Cosine Similarity** to rank resumes with **99% algorithmic accuracy**; engineered a **secure SQLite backend** with **SHA256 password hashing** and UUID salts to manage user authentication and ranking history.

Professional Certifications

Machine Learning Scientist (DataCamp, 2025), **Advanced Data Analytics** (Google, 2024), **Database Engineer** (Meta, 2024), **Data Analytics** (Google, 2024)

Technical Skills

Languages: Python (Expert), C/C++, SQL, R, JavaScript

AI/ML Frameworks: TensorFlow, PyTorch, Scikit-Learn, LangChain, HuggingFace

Specialized AI: RAG, LLMs, Computer Vision (YOLOv8, OpenCV), Vector DBs (FAISS, Pinecone)

Data Engineering: Pandas, NumPy, BigQuery, ETL Pipelines, Statistical Modeling

Backend & DevOps: FastAPI, Django, Flask, AWS (EC2, S3, Lambda), Docker, Git, MySQL