NAMAN PRIYADARSHI

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AI Engineer · ML Engineer · Data Scientist

EDUCATION

EURECOM (Co-founded by Télécom Paris & EPFL) — Sep 2024 – Expected Feb 2027
Master's in Computer Science (Data Science Track) — **Sophia Antipolis, France**

University of Delhi — Nov 2020 – Aug 2024
Bachelor of Technology (Information Technology and Mathematics) — **Delhi, India**

EXPERIENCE

iABG Innovation Centre — April 2026 - September 2026
AI Engineer Intern — Agentic RAG Systems & Knowledge Graphs — *Munich, Germany*

- Architecting a **VS-NfD-compliant** production-grade RAG system for multilingual (German & English) aeronautical and defence documents.
- Engineered an end-to-end document ingestion pipeline: parallelised **dual-VLM processing** (Gemma 4 + GLM-OCR) with layout-aware bounding-box extraction, a **Bidirectional Spatial Engine** for context-aware image captioning, custom HTML/LaTeX table parsing, and granular per-document AI controls.
- Integrated **hybrid Vector + BM25** keyword search with metadata filtering and a **multilingual cross-encoder reranker**, achieving a **+7% relative nDCG** uplift over pure dense retrieval on German and English domain-specific corpora.
- Shipped a **multi-step agentic pipeline** to production: a query router dispatches across **Vector and BM25** tools based on query complexity, while **Self-RAG** re-grounds outputs before response — a controlled eval measured **+7pt Hit@1** and **+3.5pt MRR** over the non-agentic baseline; also prototyped a domain-specific **Knowledge Graph** schema achieving **0.98 precision** on LLM-based triple extraction.

Open Science Labs — February 2024 - August 2024
Open-Source ML Tooling Intern — *Remote*

- Strengthened the open-source scientific Python ecosystem; integrated **Ruff** static analysis into CI pipelines and integrated multiple documentation engines for **SciCookie**, a project scaffolding framework adopted by ML and scientific computing teams.

Software and Computational Systems Lab, LMU Munich — June 2023 - August 2023
Software Development Intern — *Remote*

- Led the **migration** of BenchExec's testing framework from 'nose' to 'pytest', adding advanced **parameterization** and pytest fixtures to improve reliability, maintainability, and coverage.
- Enhanced the CI/CD pipeline by introducing parallel testing, achieving a **4× reduction** in runtime.

PUBLICATIONS

Anjani Kumar, Ojus Kumar*, Harsh Kumar*, **Naman Priyadarshi***. An **Accuracy Improvement in Facial Verification** through **Siamese Neural Networks**. *Journal of Image Processing & Pattern Recognition Progress.* 2023; 10(2): 1–9p.

PROJECTS

LLM-Guided Audio Deepfake Detection (ASVspoof 5): Engineered a forensic detection framework on **542k+** utterances across **32** attack types; bypassed standard ASR normalisation via **raw CTC token streams** from Wav2Vec2, exposing micro-timing artifacts (phoneme jitter, silence texture), fused with **Chain-of-Thought Llama 3** analysis, injected silence metadata, and **closed-loop LLM error auditing**, achieving **F1 = 0.87** and **90% spoof precision**. (Gitlab)

AI Steam Game Recommender: Architected a fault-tolerant ELT pipeline across **100 AWS EC2 instances** processing **271k+ games** (**2GB+**) with **20%** overlapping chunks guaranteeing **100%** coverage despite node failures; developed a conversational **RAG system** (ChromaDB + all-MiniLM-L6-v2) with a custom **hybrid re-ranking algorithm** balancing vector cosine similarity against log-scaled review metrics, powered by locally hosted **Llama 3** at zero cloud inference cost.

SKILLS

Languages	Python | C/C++ | R | SPARQL | Cypher | SQL
AI & Frameworks	PyTorch | TensorFlow | LangChain | LlamaIndex | FastAPI | Pydantic | Docling
Tools & Cloud	Docker | Kubernetes | AWS | Google Cloud | Azure | Databricks | Git
Databases	PostgreSQL (pgvector) | MongoDB | Neo4j | MySQL | Firestore

LANGUAGES

English (TOEIC C1 - Professional) · French (TCF - A2) · Hindi (Native)