NAMAN TYAGI

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EDUCATION

Tandon School Of Engineering, NYU | **New York, US**
Master's In Computer Science | **Aug 2024- Present**
Relevant Coursework: Machine Learning, Computer Vision, Information Visualization using ML, Big Data, Cloud Computing,
Principles of Database Systems, Blockchain & Ledger Security, Application Security, Design and Analysis of Algorithms

Amity University Noida | **Noida, India**
Bachelor of Science in Computer Science with Honors in AI and ML | **Jul 2020 - Jun 2024**
Student Exchange Programs: Birkbeck University, London (Jan 2023 – Mar 2023), Adelphi University, New York (Apr 2023 – Jun 2023)

SKILLS

Languages: Python, Solidity, Java, SQL, C++, JavaScript
Frameworks/Tools: TensorFlow, PyTorch, Hugging Face, LangChain, Flask, Streamlit, Git
Blockchain: Smart Contracts (Solidity), Ethereum, MetaMask, Hardhat, Ganache
Cloud Platforms: AWS (Lambda, S3, DynamoDB, OpenSearch), GCP, Azure
AI/ML: LLMs, NLP, CNNs, Sentiment Analysis, Model Deployment
Others: Docker, REST APIs, Agile Methodologies, System Architecture, Data Modeling
Security & AppSec: Secure API Design, Secrets Management, IAM, Encryption at Rest & Transit, Vulnerability Analysis

PROFESSIONAL EXPERIENCE

Lead Software Developer - Records Management & Dashboarding| NYU (Office of Faculty Affairs) **(Jan 2026 – Present)**
- **Architecting** a modern **records management** and **dashboarding platform** to transform **legacy workflows** into a **structured, queryable digital system**.
- **Leading system design** for a **cloud-integrated platform** compatible with **NYU Box, Amazon S3, and Azure Blob Storage**.
- **Designing data models** and **metadata/tagging strategies** to convert **unstructured data** into **searchable, analytics-ready datasets**.
- **Translating business and institutional workflows** into **database-driven logic** in collaboration with **cross-functional stakeholders**.
- **Designing internal dashboards** to **visualize, aggregate, and track** faculty records, timelines, and approvals.
- **Coordinating with IT and platform teams** to ensure **system integration**, **compliance**, and **security standards**.
- **Managing iterative development** using Agile/Kanban methodologies while handling **highly sensitive and confidential data**.

AI & Power BI Intern (Hybrid) | Mast-Jägermeister US, Inc., White Plains, NY **(Jun 2025 – Aug 2025)**
- Designed and deployed a fully **offline AI chatbot** using embeddings + RAG workflows for secure internal knowledge access.
- Built an automated **document ingestion and semantic search pipeline**, improving information retrieval efficiency for TSMs and RSMs.
- Enhanced **NLP query understanding** in Power BI Q&A, improving insight accuracy and user experience.
- Strengthened enterprise-level LLM integration skills using **Azure AI, Python, and NLP frameworks**.

AI Research Intern (Remote) | University of Essex, UK **(Sep 2023 – Aug 2024)**
- Conducted research in **NLP** and **sentiment analysis** to support early detection of Body Dysmorphic Disorder.
- Fine-tuned Transformer-based models to improve contextual classification performance and precision-recall balance.
- Automated text preprocessing and model evaluation for **chat-based mental health assessment pipelines**.

Global Technical Support Engineer | Ciena, Gurgaon **(Jan 2024 – Jun 2024)**
- Performed data-driven diagnostics on optical network systems, ensuring minimal downtime for global telecom clients.
- Troubleshot escalated system issues using packet captures and log analysis to determine the root cause.
- Authored internal automation scripts and technical solutions that improved case resolution efficiency.

Salesforce Developer & Administrator Intern (Remote) | Salesforce **(May 2023 – Dec 2023)**
- Managed permission sets and data integrity across 50+ active users to ensure secure CRM workflows.
- Automated processes with Flow Builder, reducing manual workload by 40%, and supported analytics dashboards to improve real-time decision-making.
- Developed Apex and Lightning components to extend platform functionality, and improved CRM interaction efficiency through automated backend rules and validation.

PROJECTS

ChainGuard: AI-Powered Smart Contract Auditor *(Solidity, Python, Hugging Face, Streamlit, Hardhat, Ganache)*
- Built an LLM-based smart contract auditing tool that detects security vulnerabilities such as reentrancy, integer overflow, and improper access control using application security principles.
- Used fine-tuned transformer models from Hugging Face for natural language generation of audit summaries.
- Enabled live simulation of smart contracts using Ganache; UI built with Streamlit to upload .sol files and receive feedback.

SmartScholar: AI-Powered Research Paper Summarizer & Tagger *(Python, Hugging Face Transformers, Streamlit, LangChain, Semantic Scholar API)*
- Developed a tool that uses transformer-based LLMs to summarize research papers and generate topic tags and keywords.
- Integrated LangChain for multi-step LLM workflows and retrieval-augmented generation (RAG) from academic sources.
- UI built with Streamlit allows uploads of .pdf papers and returns structured summaries, citation links, and metadata.

MindMend: AI-Based Therapeutic Assistant | Python, GPT-4, NLP, Sentiment Analysis *(Ongoing)*
- Developed an **LLM-driven conversational therapy agent** to analyze emotional state during live interactions.
- Implemented **sentiment scoring + trend tracking** using user responses and structured surveys.
- Designed a therapeutic feedback model aimed at **early mental health intervention**.

Sign Language Recognition Using CNN | Python, OpenCV, CNNs *(Published in IEEE 2024)*
- Built a custom **CNN for gesture-to-text translation**, improving accessibility for the hearing-impaired.
- Enhanced spatial feature learning with **skeleton-plotted image augmentation**, boosting classification accuracy.
- Published research in **IEEE Xplore (2024)** demonstrated strong generalization across varied backgrounds.

Certifications: Google Cybersecurity Certificate | Google Cloud Big Data & ML | AWS, GCP & Azure Cloud Credentials