Nathan Mendis

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EDUCATION

P.E.S. Modern College of Engineering   Pune — 2022–2026
B.E. Artificial Intelligence & Machine Learning (GPA: 8.1)

Loyola High School & Junior College   Pune — 2010–2022
X: 84.2%, XII: 67%

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, C++
Backend: Django, Django REST Framework, Flask
Frontend: ReactJS, HTML, CSS
Databases: PostgreSQL, MongoDB, SQLite
AI/ML/NLP: LangGraph, LangChain, Transformers, scikit-learn, pandas, spaCy
Cloud: Docker, Azure, AWS

EXPERIENCE

R&D Intern   Jan 2025 – Oct 2025
PureID Pvt. Ltd.

- Developed and deployed a Django-based customer requirements discovery platform from scratch with role-based authentication, admin dashboard, PostgreSQL integration, and Azure deployment.

Treasurer, CODE Club (AI-ML) — Member, CSI   2023 – Apr 2025
P.E.S. Modern College of Engineering

- Built backend features for a Django quiz platform used by 100+ students with certificate generation and event management.
- Organized technical seminars on web development, IBM Cloud, and computer graphics.

PROJECTS

Harvey − AI-Powered HR Agent   *Agentic AI, RAG, LangGraph, LLMs* | **GitHub**

- Designed a graph-based agentic AI system enabling multi-step reasoning, tool orchestration, and context-aware HR automation workflows.
- Implemented a Retrieval-Augmented Generation (RAG) pipeline using Sentence Transformers and PostgreSQL (pgvector) for semantic search across recruitment and policy documents.
- Integrated structured state management and anti-hallucination safeguards to ensure reliable and consistent LLM outputs during complex task execution.

VibeeChat − Secure Messaging Platform   *Django, DRF, JWT, Cryptography* | **Live** | **GitHub**

- Developed a secure messaging backend using Django REST Framework with Fernet-based symmetric encryption to protect user messages at rest.
- Implemented JWT-based stateless authentication, granular permissions, and optimized APIs for private chat retrieval.
- Engineered atomic database transactions for friend requests, removals, and message access to ensure data consistency.

WhatsApp Chat Analysis   *Python, Streamlit, NLP* | **Live Link**

- Built a Streamlit-based web application to analyze WhatsApp chat exports and evaluate user interest levels.
- Extracted NLP features such as sentiment polarity, emoji frequency, response latency, and message patterns.
- Achieved over 85% accuracy in engagement prediction using machine learning models and custom heuristics.

Fake News Detection System   *Python, NLP, Machine Learning* | **GitHub**

- Developed an NLP-driven fake news detection system using TF-IDF vectorization and text preprocessing techniques such as lemmatization.
- Trained and evaluated multiple classifiers including Logistic Regression, Random Forest, and Passive Aggressive Classifier.
- Deployed the model using Streamlit to enable real-time news authenticity prediction with 95% accuracy.

QR Code Encryption and Decryption Web App   *Flask, Python, Cryptography* | **GitHub**

- Created a Flask-based web application to securely encrypt URLs and generate QR codes from encrypted data.
- Implemented QR code scanning and decryption logic to safely retrieve original URLs without exposing raw data.
- Focused on data confidentiality and secure information sharing through lightweight cryptographic workflows.