RITIK PAL

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EDUCATION

Delhi Technological University, New Delhi	**Aug 2022 – May 2026**
B.Tech in Software Engineering	*7.9*
Government Sarvodaya Coed Vidyalaya, New Delhi	**Jul 2020 – May 2021**
CBSE (Class XII)	*92.2%*
SGN Public School, New Delhi	**May 2018 – May 2019**
CBSE (Class X)	*92.8%*

EXPERIENCE

NatWest Group — **Jun 2025 – Aug 2025**
Software Development Intern — *Gurugram*
- Developed an **Agentic AI** solution for advanced name screening, capable of processing **10M+** client profiles.
- Achieved 92%+ match accuracy by leveraging **NLP**, **vector embeddings, and LLM-based semantic search**.
- Deployed an **MVP** that automated manual data reconciliation, helping mitigate a $100M+ cost issue in banking.

GenAirate Technologies Ltd — **Dec 2024 – Mar 2025**
Software Development Intern — *Remote*
- Engineered a Meeting Translation System using **React, REST APIs**, and **Flask** for Zoom with 4+ languages.
- Devised to help international lending companies overcome language barriers, expanding the client base by 30%.

Delhi Police — **Mar 2024 – Sep 2024**
Software Development Intern — *New Delhi*
- Engineered a web application using React, Node.js, MongoDB, Apache, and Google Maps to minimize crimes by 30%.
- Integrated live tracking, crime mapping, and patrol route optimization, leading to a 40% increase in officer deployment.

USIP Python Intern | Delhi Technological University — **Apr 2023 – Aug 2023**
Python Intern — *New Delhi*
- Trained 40+ high school students from Delhi government schools in Python programming.

PROJECTS

Deepfake Detection | *PyTorch, TIMM, OpenCV, Matplotlib, Flask, HTML/CSS/JS* ⚙ **GitHub**
- Developed a robust deepfake detection system using **EfficientNet, classifiers**, and ensemble model with 86% accuracy.

Name Screening | *Python, Flask, Tailwind CSS, NLP, Generative AI, LLM* ⚙ **GitHub**
- Implemented Agentic system with NLP-based search using vector embeddings and LLM, reducing irrelevant matches by 40% and improving information retrieval speed.

TruthXtract – Fake News Detection System | *Transformers, Express, Flask, Google Cloud Platform* ⚙ **GitHub**
- Deployed a multi-model ML-based web app to detect and classify fake news from **10+** sources in **real time**.
- Combined Random Forest, DeBERTa, and Gemini with fact-checking and source validation, achieving 92% accuracy.

TECHNICAL SKILLS

Programming Languages: C, C++, JavaScript, Python.
Full-stack Development: React, Node.js, Express, REST APIs, HTML, CSS, MySQL, MongoDB, Socket.io, JWT.
Machine Learning & Data Science: RAG, Agentic AI, Transformers, OpenCV, Data Structures and Algorithms.
Tools & Frameworks: Git, GitHub, Google Firebase, JIRA, Confluence, Jupyter, Flask.
DevOps: Nginx, AWS EC2, Google Cloud Platform.

EXTRA-CURRICULAR AND FREELANCE WORK

- Led a team of four to victory at the **NatWest Hackathon**, surpassing 150+ other teams globally.
- Implemented audio playing platform with React, Redux, and delivered 10+ features on **Upwork**. 🔗 Link
- Resolved 20+ cross-browser compatibility issues on the PMD website through rigorous testing on iOS devices. 🔗 Link
- Selected as a **Cadence Design Systems Scholar** from 2500+ applicants across India.
- Selected as a **National Finalist** among 500+ teams in the TruthTell Hackathon, by the Government of India.
- Vice President at SkillOp, Coached web development and executed webinars and hackathons for 200+ students.
- Director at Rotaract, Organized blood donation camps, clothing drives, and festive celebrations with 4+ NGOs.