

Dhruv Shrinet

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Profile

AI & Data Systems Engineer with 3+ years of industry experience and current MSc focus on secure data platforms and machine learning. Skilled in building research-grade, privacy-first databases, scalable ML pipelines, and backend APIs. Currently contributing to AI systems with strong emphasis on data governance, anonymization, and healthcare-grade security. Seeking to support ICUSafenotes-ArcHub through database infrastructure, ethical data engineering, and real-world clinical decision support applications.

Education

MSc in Adaptive Cybersecurity

2024 – Present

University of Galway, Ireland

Thesis: *Deepfake Detection using Multi-modal AI Fusion (RGB, Frequency, Facial Features)*

B.Tech in Information Technology

2016 – 2020

Amity School of Engineering & Technology, Noida

Experience

Magic Finserv – Senior Software Engineer

Feb 2023 – May 2024

- Deployed NLP solutions using BERT/GPT for financial document parsing, improving accuracy by 45%.
- Built cloud-native ML pipelines on AWS EC2 & Lambda with Dockerized CI/CD and GitHub Actions.
- Reduced manual workload by 60% by integrating real-time ML APIs into product environments.

Tata Consultancy Services – Systems Engineer

Sept 2020 – Oct 2022

- Delivered enterprise NLP models with 85%+ accuracy, improving chatbot response time by 35%.
- Automated ML retraining with SageMaker & Airflow, cutting model update time by 50%.
- Managed secure model deployment on EC2 for real-time inference, handling 1M+ monthly queries.

- Assisted in delivering lab sessions for modules in Introduction to modelling.
- Helped Computer Science students with coursework, project guidance, and conceptual understanding of ML algorithms.
- Reviewed and graded assignments, and contributed to creating learning materials.

Academic & Research Projects

Deepfake Detection System (Thesis) – Ongoing

Developed a hybrid AI model using CNNs, Vision Transformers, and FFT features. Emphasized secure facial data handling through anonymized preprocessing pipelines, modular PyTorch architecture, and versioned experiments using DVC.

Agentic AI Task Automation System

Built an autonomous multi-agent system using LangChain Agents + OpenAI functions to perform web tasks. Integrated vector memory for long-term context, deployed with FastAPI, and used secure REST interfaces and audit tracking.

LLM Resume Screener

Fine-tuned BERT for candidate classification in hiring pipelines. Integrated REST API into a mock ATS system, achieving 92% precision on real-world profiles.

News Sentiment Analyzer (GPT-3 + LangChain)

Classified financial news sentiment using GPT-3 and LangChain. Deployed as a real-time dashboard using AWS Lambda and Streamlit.

Skills

Languages: Python, SQL, Bash, C++, JavaScript

Database Systems: PostgreSQL, MySQL, SQLite, MongoDB, ER Modeling, DB Normalization

Data Engineering: Pandas, NumPy, Airflow, DVC, Data Anonymization, Data Linking, Schema Design

Security & Compliance: GDPR, HIPAA (conceptual), Role-Based Access Control, Audit Logging

ML/AI: PyTorch, TensorFlow, HuggingFace, BERT, CNNs, ViT, XGBoost

Backend APIs: Flask, FastAPI, Django REST

Cloud/DevOps: AWS (EC2, Lambda, SageMaker), Docker, GitHub Actions, Kubernetes

Versioning/MLOps: MLflow, DVC, Redis, Model Registry