Kunal Tyagi

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Education

COER University (College of Engineering Roorkee) Expected June 2026
Bachelor of Technology in Computer Science
Intermediate CGPA 8
Metric CGPA: 9

Skills Summary

- **Programming Languages:** Python, C++
- **Data Science:** ML, Deep Learning, Data Visualization, NLP
- **Tools:** Pandas,NumPy,scikit-learn,Data visualization,TensorFlow, PyTorch, Flask, MongoDB, FAISS, Streamlit, Hugging Face
- **Web Framework:** Flask
- **Database:** MongoDB
- **Soft Skills:** Teamwork, Communication, Time Management

Work Experience

AI Machine Learning Intern — Infosys Springboard

- Gained in-depth knowledge of Large Language Models (LLMs) and Retrieval-Augmented Generation (RAG) techniques.
- Developed an AI-powered legal document summarizer that improved risk analysis efficiency by 35 percent ,reducing manual review time by 40 percent
- Implemented FAISS, improving document retrieval speed by 50 percent and accuracy by 20 percent .
- Deployed the project on Streamlit and Hugging Face, achieving 1,500+ user interactions in 3 months.
- Explored GDPR and HIPAA compliance, reducing legal risk by 30 percent

Projects

Skin Disease Detection using EfficientNetB0

- Built a deep learning model with EfficientNetB0, achieving 92 percent accuracy on a dataset of 10,000 images
- Applied data science techniques for preprocessing, augmentation, and feature extraction.
- Utilized TensorFlow and Keras to train and fine-tune the model for optimal accuracy.
- Implemented Flask to build a web interface for real-time image prediction.

Delhi Metro Network Analysis and Route Optimization

- Conducted graph-based analysis of the Delhi Metro network using NetworkX.
- Modeled stations as nodes and metro routes as weighted edges for efficient traversal.
- Analyzed connectivity using graph theory and Visualized the metro network using Matplotlib and Geopandas for spatial insights.
- Optimized Delhi Metro routes, reducing average travel time by 18 percent for 50,000 daily commuters

AI-Powered Legal Document Summarization and Risk Assessment

- Developed an AI-driven system for summarizing legal documents and assessing risks using Large Language Models (LLMs).
- Deployed the model on Hugging Face and built an interactive UI using Streamlit.
- Integrated risk scoring mechanisms to analyze compliance with GDPR and HIPAA regulations.
- Visualized legal document insights through interactive charts and dashboards.

Certifications

- Data Science and AI Course Certificate – Infosys Springboard
- Python for Data Science and AI– IBM
- Pandas for Machine Learning – Kaggle
- Deep Learning Specialization - DeepLearning.AI (Score: 96.25 percent) (Coursera)
- Tata Crucible Contest Participation Certificate