

Ekansh Dubey

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EDUCATION

Course	Institution	Year	Grade
B.Tech in Electrical Engineering	Faculty of Technology, UoD	2023–2027	7.5 GPA
Minor in AI & ML	Faculty of Technology, UoD	2024–2027	NA
Senior Secondary (CBSE)	Oriental Public School	2022	87.2%
Higher Secondary (CBSE)	Oriental Public School	2020	94.8%

WORK EXPERIENCE

- ApkaInterior.com** **Jan 2025 – Mar 2025**
Data Analyst Intern *Remote*
 - Data Pipeline Optimization:** Redesigned and optimized internal web-data extraction workflows, reducing processing time by 10% and improving reliability.
 - Business Intelligence:** Developed an interactive Power BI dashboard enabling faster and more informed business decisions.
 - Problem Solving:** Resolved data-quality issues and improved ETL pipeline consistency across sources.
- PS Construction (with Jio Telecom)** **Jun 2024 – Jul 2024**
Project Intern *Chhattisgarh, IN*
 - Vendor Coordination:** Managed coordination with 10+ vendors ensuring uninterrupted supply for telecom infrastructure.
 - Compliance & Safety:** Implemented safety and regulatory standards across 5 construction sites.
 - Operational Problem Solving:** Resolved material, logistics, and scheduling bottlenecks to maintain timelines.

PUBLICATIONS

- Cracking the Code of Spotify Hits: The Impact of Data Preprocessing and Machine Learning Models:** Published in IEEE. □

PROJECTS

- BetrayalNet (Strategic Deception Detection in Diplomacy):** Built a neural framework to detect deception in strategic multi-agent dialogue within *Diplomacy*. Combined frozen BERT embeddings with psycholinguistic markers and “Strategic Proxy” heuristics to approximate game-theoretic utilities. Achieved Macro F1 of 0.5847 with sub-0.01 ms inference, approaching PU-Lie (0.60) while remaining lightweight and deployable. □
- SAM (Retail AI Assistant):** Developed a multimodal retail assistant for Walmart Sparkathon, built custom instruction datasets, designed React UI, and optimized interactions. □
- HaritaX (Hybrid CNN-Transformer Ensemble for Crop Disease Detection):** Designed a hybrid ensemble combining CNN (VGG16, ResNet50) and transformer (ViT, Swin) features via a compact MLP classifier. Achieved 99.76% accuracy on a 15-class PlantVillage subset (20k+ images) and demonstrated strong robustness across ablation tests. □
- Spotify Hit Predictor (ML Pipeline):** Implemented a full ML pipeline for song hit prediction using 40k+ tracks, engineered features, tuned Random Forest, and achieved 74.22% accuracy. □
- NavNote:** Developed a TUI-based note-taking application in Go leveraging Bubble Tea; implemented efficient state management, fuzzy filtering, and local Markdown storage for a lightweight, dependency-free workflow. □

SKILLS

- Technical:** Python (NumPy, Pandas), Machine Learning (Scikit-learn, TensorFlow), SQL, C++, React, Javascript, Go, LaTeX, OpenDSS, Linux
- Competitive Programming:** 3× CodeChef (Max Rating: 1770)
- Tools:** MATLAB, Tableau, Power BI, Git & GitHub, MS Excel, Roboflow
- Certifications:** Financial Markets (Yale), Supervised ML (Stanford), Intro to Statistics (Stanford)
- Languages:** English (Professional), Hindi (Native)