

# RAJ NANDINI SINGH

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## SUMMARY

AI Engineer focused on LLM systems, agentic AI, and deep learning pipelines across NLP, CV, and time-series. Improved diffusion-based model quality by 25% and cut inference latency by 15% at PhotoGPT. Skilled in embeddings, fine-tuning, AI workflow automation, and building production-grade ML systems end-to-end.

## EDUCATION

### AMITY UNIVERSITY

Bachelor of Engineering

Major in Computer Science; Minors in Artificial Intelligence

Cumulative GPA: 8.38/10

Relevant Coursework: Data Analysis, Software Engineering; Operating Systems; Algorithms; Artificial Intelligence

Noida, UP  
2022 – 2026

## WORK EXPERIENCE

### Evephoria

Frontend Intern

Noida, UP  
Apr 2025 – Jun 2025

- Rebuilt frontend UI using React 18, TypeScript, and Tailwind CSS, reducing page load time by 20% and increasing user engagement by 10%.
- Enhanced React components with responsive layouts, cutting UI bugs by **35%**, in collaboration with UX and backend teams.
- Integrated **Axios** for API requests and **React Router v6** for efficient navigation, ensuring seamless interaction across pages.

### PhotoGPT AI Startup

Generative AI Intern

Remote  
May 2025 – Jul 2025

- Refined image transformation pipeline using diffusion model techniques and latency profiling, boosting output quality by **25%** and reducing inference time by **15%**.
- Optimized AI/ML training workflows, improving inference efficiency by 15% and scalability across multiple datasets.
- Identified and resolved pipeline bottlenecks, cutting model training latency by 10% and improving deployment consistency.

## PROJECTS

### Financial Forecasting + Fraud Detection System — Full ML Pipeline (DS + ML)

[SpendVision.git](#)

- Built a complete analytics pipeline (SQL-based data extraction → cleaning → feature engineering → time-series analysis), designing 20+ behavioral & temporal features that improved anomaly-detection precision by 31%.
- Developed a hybrid LSTM + Isolation Forest + Autoencoder system for spend forecasting and fraud detection, and deployed an interpretable SHAP-backed dashboard for real-time alerts and risk scoring.

### IsMyResumeCooked — LLM App (NLP + Embeddings + Reasoning)

[ismyresume.git](#)

- Built an LLM-powered evaluator checking ATS compatibility, clarity, hallucinations, and skill-role alignment.
- Implemented embedding-based semantic scoring to detect weak sections and generate targeted rewrite.

### Autonomous Agentic Preprocessing System — Research (MLOps + Agents + LLMs)

[agenticPipeline.git](#)

- Developed a research-grade agentic AI system that autonomously performs dataset ingestion, cleaning, schema understanding, leakage detection, and feature engineering using LLM-driven reasoning.
- Implemented a multi-agent workflow (Judge Agent, Planner Agent, Preprocessing Agent) that evaluates data quality, selects transformations, and generates reproducible metadata & JSON recipes for downstream training.
- Added LLM-driven adaptive decision-making and metadata generation for reproducible preprocessing workflows.

## ACTIVITIES

### Iot Alliance Club and Strokes Club (Creative Head of Events)

Feb 2024 – Jan 2025

- Organized 5+ technical workshops and mentored peers on coding and AI tools.
- Led 10+ event campaigns, increasing participation and engagement by 30%.

### Hockey University Team (Captain)

- Led university hockey team of 10+ players to Inter Amity championship finals, showcasing leadership, teamwork, and strategic planning under pressure.

## ADDITIONAL

**Technical Skills:** Python, C, C++, SQL, Machine Learning, Deep Learning, NLP, Computer Vision, TensorFlow, PyTorch, OpenCV, Scikit-learn, Data Preprocessing, Docker, Git, Jupyter, Colab, React.js, HTML, CSS, Tailwind, Bootstrap, Linux, DSA.

**Certifications & Training:** Andrew Ng – **Machine Learning Specialization** (2025), **IBM Data Science Professional Certificate** (2025), Cisco Networking Academy – **CCNA Certification** (2024), Google Cybersecurity Certification – Coursera (2024), NPTEL – **Python for Data Science** (2023).

**Languages:** Fluent in English, Hindi; Conversational Proficiency in German