Ajay Kumar

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Profile

Dedicated and ambitious Computer Science student at NIIT University, with a focus on AI/ML. Technology, innovation, and problem-solving enthusiast with a strong dedication to lifelong learning. Actively involved in academic projects and co-curricular activities to implement theoretical concepts in practical situations. Looking for opportunities to contribute to fast-paced tech spaces and drive meaningful solutions.

Education

Bachelor of Technology,
NIIT University
08/2022 – 10/2026 | Neemrana

Skills

- Python
- React
- JavaScript
- HTML & CSS
- Django

Courses

Complete A.I. & Machine Learning, Data Science Bootcamp, *Udemy*

Ultimate AWS Certified Cloud Practitioner CLF-C02 2025, *Udemy*

Projects

VolatiSense
present
Market Risk Assessment Web Application – VolatiSense *(Full Stack Project)* (Docker, React.js, Node.js, Python, Jenkins)

- Designed and developed a full-stack web app for **Value at Risk (VaR)** and **CVaR-based financial risk assessment**.
- Built a responsive **React.js frontend** to display interactive risk metrics and stock data visualization.
- Created **Node.js/Express.js APIs** integrated with Python scripts for real-time stock data and risk computation.
- Implemented **VaR and CVaR models** using statistical and machine learning approaches to assess portfolio risk.
- Automated deployment using **Docker Compose** and CI/CD pipelines with **Jenkins and GitHub**.
- Ensured modular architecture by containerizing services and optimizing performance with asynchronous data flows.

Testwise, *AI-Based Document Management & Analysis (Django, SQLite, Mistral AI)*

- Built a web-based application for document processing and automated assessments.
- Implemented **OCR (Tesseract)** and **AI-based grading & summarization**.
- Integrated **Mistral AI API** for intelligent text analysis.

Live Sports Score Website, *(Django, API Integration)*

- Designed and developed a **Django-based sports website** to display live match scores.
- Integrated **real-time sports API** for live score updates.
- Built an intuitive and responsive UI for seamless user experience.

Load Forecasting & Anomaly Detection,
(R&D Project) (LSTM, AI/ML)

- Conducted **research & development on time-series forecasting** for energy load prediction.
- Built **LSTM-based deep learning models** for accurate power consumption forecasting.
- Implemented **anomaly detection algorithms** to identify unusual patterns in energy data.

- Improved forecasting accuracy by optimizing hyperparameters and using **advanced ML techniques**.