Mohd Kaif

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Education

VIT Bhopal University — Jun 2021 – May 2026
Integrated Masters in Artificial Intelligence and Machine Learning
Cumulative GPA: 8.28/10

Dr. Virendra Swarup Education Centre, Kanpur, Uttar Pradesh
12th ISC: 82.8% — 2021
10th ICSE: 85.8% — 2019

Experience

Artificial Intelligence & Data Analytics Intern (Virtual) — Jan 2025 – Feb 2025

- Completed a 4-week internship focused on AI, Data Analytics, and Green Skills
- Worked on the project "Predicting Solar Power Output Using Linear Regression," applying machine learning and data preprocessing techniques
- Gained hands-on experience in model building, feature engineering, and sustainability-focused applications
- Collaborated with industry experts to explore real-world AI use cases in renewable energy

Projects

Hospital Bed Management System – COVID-19 Response Project — May 2024 – Dec 2024

- Designed and developed a web-based application to manage and track real-time hospital bed availability
- Built using frontend technologies (HTML, CSS, JavaScript) and backend integration (Node.js, PHP, or Python) with a connected database
- Implemented automated data validation and dashboard analytics to support rapid decision-making for hospital administrators

Retrieval-Augmented Generation (RAG) Contextual Question Answering System — Apr 2025 – Jun 2025

- Developed a Retrieval-Augmented Generation (RAG) based Contextual QA system using OpenAI GPT-4 and FAISS vector DB
- Applied LangChain pipeline for document chunking, embeddings, and real-time answer generation
- Evaluated system performance using custom metrics and conducted iterative fine-tuning to optimize accuracy and response relevance

AI-Powered Energy Demand Forecasting System — Feb 2025 – Present

- Built an ML-based system to predict energy demand using regression models (Linear Regression, XGBoost, LSTM)
- Collected and preprocessed real-world energy datasets, implemented feature engineering for optimization
- Visualized results and created reports for stakeholders to aid in demand planning and grid optimization

Leadership & Activities

Core Team Member – AI Club, VIT Bhopal — Sep 2023 – Present

- Organized and hosted AI-focused workshops, webinars, and events
- Mentored junior members and encouraged active involvement in club activities and projects
- Collaborated with faculty and professionals on sessions covering ML, neural networks, and AI

Certifications

Applied Machine Learning in Python (Coursera)   AWS Certified Solutions Architect (Scheduled Oct 2025)
Cloud Computing (NPTEL)   Artificial Intelligence & Data Analytics Internship

Technical Skills

Languages: Python, Java
Tools & Frameworks: VSCode, Node.js, ReactJS, API
Databases: MongoDB, Firebase
Coursework: Data Structures, OS, OOP, DBMS
Soft Skills: Analytical, Dedicated, Responsible, Versatile