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, UNIX

Databases: MongoDB, Firebase, SQL

Coursework: Data Structures, OS, OOP, DBMS

Soft Skills: Analytical,Dedicated, Responsible, Versatile