Ektedar Ahmad

B.Tech - Major in Chemical Engineering
Minor in Artificial Intelligence
Indian Institute of Technology Jodhpur

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology Jodhpur	8.10	2023–2027
Senior Secondary	DPS Kalyanpur (CBSE)	94.7%	2022
Secondary	DPS Kalyanpur (CBSE)	94.8%	2020

EXPERIENCE

Inter IIT Tech Meet 13.0: ISRO, Support Team *Oct 2024 - Dec 2024*
Three.js, WebGL, XRF Analysis, Python, Link *Mumbai*

- Secured 2nd runner-up among 23 IITs by developing a real-time 3D lunar surface visualization using Three.js and WebGL.
- Processed and mapped XRF line intensity data from 50+ lunar samples, achieving 90% spatial mapping accuracy.
- Conducted compositional analysis on 100+ elemental maps to identify heterogeneity with 95% detection accuracy.

Main Flow Services: Full Stack Web Development Intern *Jun 2024 – Aug 2024*
MERN Stack, React, Tailwind CSS, Razorpay, Google OAuth, Link *Remote*

- Designed a subscription-based portfolio platform using the **MERN** stack, onboarding 200+ users in Month 3.
- Optimized React + Tailwind UI to reduce average page load from 1.5s to 1.1s (25% faster) across desktop and mobile.
- Integrated **Razorpay** and Google OAuth, lifting sign-up conversions by 30% and boosted user engagement by 40%.

PROJECTS

AI-Driven Algorithmic Trading Bot *Feb 2024 – Apr 2024*
GenAI, Python, RSI, MACD, ADX, VWAP, Gemini API, News API

- Built a GenAI trading bot executing 15+ trades daily using RSI, MACD, ADX, VWAP, and sentiment signals.
- Leveraged Gemini and News API to enhance profit by using technical indicators and market sentiment analysis.
- Implemented trailing stop-loss and conditional trade logic, reducing downside risk by 20% with 99% uptime.

Medicine Recommendation Model *Jul 2023 – Sep 2023*
KNN, Naïve Bayes, Random Forest, Data Analysis, Python, Flask *IIT Jodhpur*

- Developed an intelligent model under Dr. Seema Saini to predict diseases with 85% accuracy using KNN, Naïve Bayes, and Random Forest on 10,000+ reports, assisting doctors in disease analysis and medication suggestion.
- Deployed a Flask-based interface supporting 20+ concurrent files, improving report processing speed by 30%.

AC Service Website *May 2023 – Jun 2023*
PHP, MySQL, HTML, CSS, JavaScript, SEO

- Launched a PHP+MySQL–based AC service portal attracting 300+ monthly visitors and processing 40+ bookings.
- Built responsive front-end using HTML, CSS, and JavaScript, and added SEO optimizations to boost traffic by 25%.
- Added responsiveness to ensure fast loading and seamless experience across various devices and screen sizes. Link

SKILLS

- **Programming Languages:** Python, C/C++, PHP, JavaScript, HTML/CSS, TypeScript, Bash
- **Libraries/Frameworks:** TensorFlow, PyTorch, Pandas, NumPy, scikit-learn, Flask, React.js, MongoDB, MySQL
- **Developer Tools:** Git, Docker, Postman, VS Code, Jupyter, Colab, XAMPP, Canva, Figma
- **Technologies/Platforms:** Azure AI, OCR, REST APIs, JWT Authentication, Firebase, WebSockets, SmartApi
- **Operating Systems:** Linux, MacOS, Windows

KEY COURSES TAKEN

- **Computer Science and AI/ML:** Data Structures & Algorithms, Artificial Intelligence, Machine Learning
- **Mathematics:** Linear Algebra, Probability, Differential Equations, Statistics Stochastic Process, Calculus
- **Electronics:** Intro. to Electrical Engineering , Signals and Systems

ACHIEVEMENTS

- **Inter IIT Tech Meet 13.0:** Secured 3rd position among 23 IITs in ISRO Data Analysis Problem Statement
- **Academic Excellence:** Ranked in the top 2% with an A grade in Machine Learning and Data Structures
- **Inter IIT Math Bowl (Tessellate, CMI):** Achieved 12th rank in a national-level mathematics competition
- **JEE Main 2023:** Secured 99.01[th] percentile, placing in the top 1% among 11.13 lakh candidates.
- **Research Consultant in WorldQuant Brain:** Ran 217+ simulations