

Abdul Moeed

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ABOUT ME

Software Engineer with hands-on experience in full stack development (MERN), natural language processing, and machine learning. Skilled in fine-tuning large language models, developing APIs, and building scalable AI-driven web applications. Strong understanding of backend systems, secure authentication, and real-time interfaces. Comfortable working in teams, writing clean, maintainable code, and solving problems under tight deadlines.

EDUCATION

HITEC University

BS, Software Engineering

Oct 2021 - Aug 2025

WORK EXPERIENCE

Digital Empowerment Network (DEN)

Backend Development Intern (Remote)

Sep 2024 - Oct 2024

Pakistan

- Built REST APIs with Node.js, Express, and MySQL, used Docker and Kubernetes to deploy and manage microservices.
- Worked remotely with a team to fix bugs, write documentation using Postman & Thunder Client, and handle version control with Git and GitHub.

Digital Empowerment Network (DEN)

Artificial Intelligence Intern (Remote)

Jul 2024 - Jul 2024

Pakistan

- Built a spam detection model using LSTM in TensorFlow, and wrote a neural network from scratch in NumPy to classify MNIST digits with custom backprop.
- Created small Python projects like a 2-player Tic Tac Toe with full game rules and replay features.

PROJECTS

HITEC UNIGUIDE (FYP)

Oct 2024 - May 2025

- Built a full-stack (MERN) platform with a chatbot assistant for handling student queries, powered by Mistral-7B Instruct, MiniLM, and Faiss for semantic search.
- Created a custom JSON-formatted dataset covering HITEC University's academic info, policies, and campus details.
- Developed secure dashboards with JWT authentication and bcrypt, using React, Node.js, Express, and MongoDB (Compass & Atlas).
- Deployed backend on Heroku, frontend on Netlify, and served AI models via FastAPI and Flask.

Phone Number Validation & Carrier Lookup Platform | <https://nebularkphonevalidation.vercel.app>

- **Tech Stack:** React, Node.js, Express, MongoDB, Axios, Tailwind CSS, Vite
- Developed a full-stack platform to validate and look up carrier information for phone numbers in real time.
- Implemented backend APIs for number validation, carrier lookup, and secure error handling.
- Integrated frontend with responsive UI, real-time API responses, and loading/error states.
- Deployed frontend on Vercel and backend on Heroku with complete integration.

TOOLS & TECHNOLOGIES

- **Languages:** Python, JavaScript, C++, Java, SQL, HTML, CSS, MATLAB
- **Frameworks & Libraries:** React, Node.js, Express, Flask, FastAPI, Tailwind CSS, Vite, Mongoose
- **Databases:** MongoDB (Compass & Atlas), MySQL
- **ML & NLP:** BERT, MiniLM, Mistral-7B, Faiss, Hugging Face Transformer
- **Concepts:** Natural Language Processing, LLM fine-tuning, Sentiment & Emotion Analysis, Deep Learning, RESTful API Design, Secure Authentication
- **Dev Tools:** Git, GitHub, Postman, Thunder Client, VS Code
- **Deployment:** Netlify, Heroku, Render, AWS

CERTIFICATIONS

- **Web Development & Cybersecurity Pentesting:** NITSEP
- **Responsive Web Design:** freeCodeCamp
- **Frontend Web Development/ML Workshop:** HITEC University
- **IEEE Scholarship Webinar:** HITEC University