Full Stack Web Development with AI
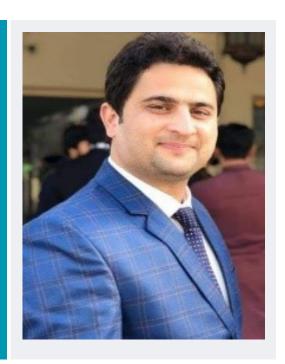
Duration:	3 months
Starting Date:	Available Now
Price:	PKR. 7,000

MEET YOUR INSTRUCTOR

Dr. Muhammad Hamid is an Assistant Professor at GC Women University, Sialkot. He has 12+ years of teaching and research experience in Artificial Intelligence and Software Engineering. He has also published 30+ research papers and worked on projects in Canada during his Ph.D. His interests include AI, Software Engineering, and Intelligent Diagnosis.

Course Outline

MODULE	LEARNING OUTCOMES
Welcome to Full Stack Web Development with AI	Welcome to the course on Full Stack Web Development with AI! In this module you will learn what full stack development means, the scope of AI-powered applications, and how this course will benefit your career.
Frontend Development Basics	This module introduces HTML, CSS, and JavaScript for building responsive user interfaces. You will learn how to create clean, interactive frontends that prepare the foundation for AI integration.
Modern Frontend Frameworks	This module explores popular frontend frameworks used in industry. You will learn to build modular, scalable frontends that can easily connect with AI services and external APIs.
Backend Development Fundamentals	This module explains the role of servers in web apps. You will learn about APIs, server-side logic, and handling requests and responses, ensuring smooth communication with AI-powered services.
Working with Databases	This module introduces database concepts for storing and retrieving data. You will learn to design simple schemas and manage application data, preparing it for use in AI-driven features.
Integrating AI Services in Web Apps	This module shows how to connect web apps with AI APIs such as OpenAI, Hugging Face, or Stability AI. You will practice adding smart features like chatbots, summarizers, or image generation.
AI-Powered User Experience	This module focuses on creating intelligent frontends. You will learn to enhance user interfaces with real-time AI responses, interactive assistants, and personalized content delivery.

Security and Best Practices	This module highlights security when working with AI in web apps. You will learn safe handling of API keys, authentication methods, and how to protect sensitive user data in AI workflows.
Deploying AI-Enabled Applications	This module explains how to deploy full stack apps that integrate AI. You will learn about using hosting services, connecting cloud-based AI APIs, and making your projects live for real users.
Capstone Project & Certification	In the final module, you will build and deploy a complete AI-powered web application. You will integrate frontend, backend, and AI services, test performance, and receive your course certificate.

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