

MOHAMMAD BILAL

AI/ML & SOFTWARE ENGINEER



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PROFILE SUMMARY

Computer Science graduate with hands-on experience in AI, Computer Vision, and Full-Stack Development. Skilled in Python, JavaScript, React, Node.js, FastAPI, SQL, and Machine Learning, with a focus on building scalable, practical software solutions.

TECHNICAL SKILLS

Technical Skills:	Python	Programming Fundamentals	HTML5	CSS3	SQL	Computer Vision	Dart	AI		
	C	ML	JavaScript	Prompt Engineering	RAG	OCR	OOP	SDLC	C++	MATLAB
	JSON	JWT	Data Visualization	TypeScript	Linear Algebra	Calculus	Vapi AI			
	TailwindCSS	XGBoost	CSS	Plotly	Discrete Mathematics	CRUD	MediaPipe	HTML		
	Prompt Optimization	AI Algorithms	Google Gemini AI	PL/SQL	Computer Networks					
	OAuth 2.0	Flutter	DSA	Mathematics	REST APIs					
	Frameworks & Libraries:	Next.js	React.js	Node.js	Express.js	Fast API	FLASK	OpenCV	Tailwind CSS	
GSAP		NumPy	Pandas	LangChain	LangGraph	Ollama	Groq API	Streamlit		
Selenium		Beautiful Soup	PyMUPDF	Google Generative AI	OpenAI	Pydantic				
Anthropic		Zustand	Framer Motion	better auth	React	Keras	Matplotlib			
Tools & Platforms:		Git	Docker	PostgreSQL	MongoDB	Postman	VS Code	Antigravity	Cursor	
	Lovable	Vercel	Figma	Hugging Face	Kaggle	Claude	ChatGPT	Gemini		
	Supabase	Cisco Packet Tracer	Wireshark	Google Colab	Replit	GitLab CI/CD				
	GitHub Actions	GitLab	Groq	Grok Bot	ngrok	Render	Gradle	AWS CLI		
	MongoDB Compass	Grok	PostgreSQL CLI (psql)	Composio	Jupyter Notebook					

PROJECTS

AI Book Assistant

[GitHub](#) [Live](#)

June 2026 – July 2026

Built an interactive AI conversation platform allowing users to upload PDFs and chat using voice capabilities.

Next.js

Typescript

Javascript

Vapi AI

TailwindCSS

AI Customer Churn Prediction System

[GitHub](#) [Live](#)

Feb 2026 – Mar 2026

Developed an end-to-end telecom churn prediction application using XGBoost, Streamlit, and Gemini AI for churn prediction, interactive analytics, and AI-driven customer retention insights.

Python

Streamlit

XGBoost

Plotly

Pandas

NumPy

Google Gemini AI

Data Visualization

Eye Blink Morse Code Detector

[GitHub](#) [Live](#)

July 2025 – Aug 2025

A hands-free Morse code typing system powered by a webcam, OpenCV, and MediaPipe Face Mesh.

Python

OpenCV

MediaPipe

NumPy

Study Platform System

[GitHub](#) [Live](#)

July 2026 – Sept 2026

Engineered and optimized the Study Platform System's infrastructure, enhancing its scalability and reliability for future student-centric projects.

Python

HTML

CSS

JavaScript

OOP

C++

CRUD

Git

GitHub

AI Algorithms

C

EDUCATION

Bachelor of Science in Computer Science	Aug 2022 – Jun 2026
FAST NUCES University · PAKISTAN	2.85/4.0

CERTIFICATIONS

Critical Thinking	Credential	September 8, 2026
Deloitte WorldClass		
Effective Leadership	Credential	
Deloitte WorldClass		

LANGUAGES

English (Fluent) Urdu (Native) Arabic (Beginner) Hindi (Intermediate)