

MUHAMMAD ABDUR REHMAN MAQSOOD

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PROFESSIONAL SUMMARY

Computer Science undergraduate specializing in full-stack web development and applied machine learning. Proven ability to architect end-to-end ML pipelines and embedded IoT systems, with a strong focus on deploying interpretable, high-impact technical solutions. Experienced in project management, adept at guiding technical teams, maintaining project momentum, and translating complex algorithmic concepts for diverse stakeholders to ensure successful deployments.

ACADEMIC BACKGROUND

BS in Computer Science	Baba Guru Nanak University, Nankana Sahib	2024-Present
Intermediate	Superior Group of Colleges, Mananwala	2021-2023

TECHNICAL SKILLS

- Languages:** Python, C++, SQL, HTML/CSS, PHP
- Frameworks & Libraries:** FastAPI, PyTorch, Scikit-learn, Pandas, NumPy
- Tools & Environment:** Git, Docker, Hugging Face Spaces, MySQL

AWARDS & ACHEIVEMENTS

- First Place Winner, Quiz Competition (INTF 2.0)** | *Baba Guru Nanak University (Apr 2026)*
Secured 1st place in a competitive university tech fest, demonstrating rapid problem-solving and technical proficiency in Programming Fundamentals, OOP, and Logical Reasoning.
- Second Place Winner, Tech Spark 2025** | *Baba Guru Nanak University (Jul 2025)*
Awarded 2nd position for developing the Smart Helmet integrated with prototype, recognized for practically applying embedded systems and sensor integration to solve critical road safety challenges.
- CM Punjab Laptop Scheme Awardee** | *Govt. of Punjab (Apr 2025)*
Selected for this highly competitive, merit-based provincial award in recognition of outstanding academic excellence and high potential within the computer science program.
- Honhaar Undergraduate Merit Scholar** | *Punjab Higher Education Commission (Dec 2024)*
Awarded this prestigious, merit-based government scholarship in recognition of top-tier academic performance, consistent discipline, and strong leadership potential.

PROFESSIONAL PROJECTS

- AI-Powered Brain Tumor Classification with Explainable Deep Learning**
Developed an end-to-end diagnostic tool to classify brain tumors from MRI scans using an EfficientNetV2-L architecture. Engineered the deep learning pipeline with custom data augmentation and transfer learning in Python, achieving an exceptional 97-99% validation accuracy within one month. Integrated Grad-CAM for visual explainability, effectively

communicating the complex mathematical reasoning behind model predictions to stakeholders. Managed the full machine learning lifecycle from data preprocessing to production, deploying a containerized FastAPI backend via Docker on Hugging Face Spaces.

- **FixIt Local - Issue Reporter and Tracker**

Developed a full-stack civic engagement platform to crowdsource and resolve local community issues through a centralized web portal. Architected and deployed the application using HTML, CSS, PHP, and a MySQL database. Implemented an interactive issue map with precise location tagging alongside an automated email tracking system. To enforce accountability, engineered a time-based backend protocol that automatically escalates unresolved reports to higher authorities after a strict 24-hour threshold.

- **Smart Helmet Integrated with Smart Glasses**

Engineered an integrated wearable safety system combining a smart helmet and glasses to actively mitigate motorcycle accidents. Guided an eight-student cross-functional team over three months, orchestrating project phases and maintaining team alignment to meet tight deadlines. Utilized C++ and Digital Logic Design to interface embedded hardware, including pressure, infrared, and alcohol sensors. Developed the core software architecture to process real-time telemetry, enabling continuous helmet verification and instant detection of rider drowsiness or intoxication.

CERTIFICATES

- **Google Prompting Essentials** | *Google (Jun 2026)*

Mastered advanced prompt engineering methodologies through a rigorous multi-module program. Developed highly technical skills in zero-shot, few-shot, and chain-of-thought prompting to systematically test, refine, and optimize LLM outputs for complex problem-solving and automated pipeline integration.

- **Google AI Essentials** | *Google (Dec 2025)*

Completed a comprehensive multi-course specialization covering foundational generative AI principles, large language model (LLM) architectures, and responsible AI frameworks. Gained practical expertise in deploying AI tools to accelerate software development workflows, automate repetitive tasks, and design ethical, high-impact AI solutions.

LANGUAGES

- **English** – Fluent (Read/Write/Speak)
- **Urdu** – Native
- **Punjabi** – Native

INTERESTS & HOBBIES

- Software Development
- Reading Books