

# Muhammad Ahsan Rasheed

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## Skills

- Python | Django | Fast API | C# | .NET | TypeScript | C++ | Supabase | PostgreSQL | Node | Git
- CI/CD | OOP | Microservices | Payment Integration | Stripe | Checkr Background Verification
- Frontend Development | Backend Development | Full-Stack Development

## Experience

**AI Software Engineer** Asimplify *Islamabad, ICT, Pakistan* **03/2024 - Current**

- Developing AI solutions using LLM integration and RAG pipelines.
- Building APIs and chatbot systems for automation and intelligent workflows.
- Integrating external services including payment systems and AI tools.

**AI Software Engineer, Intern** Asimplify *Islamabad, ICT, Pakistan* **10/2023 - 02/2024**

- Assisted in developing AI applications using Python and machine learning.
- Worked on backend development, API integration, and testing.
- Supported chatbot and automation system development.

**Research Associate, Training** COMSATS University, Comsens Lab *Islamabad, ICT, Pakistan* **02/2023 - 09/2023**

- Conducted research in machine learning and data analysis.
- Developed predictive models and analyzed performance metrics.
- Collaborated with research teams on AI and Machine Learning.

## Education

**Bachelors of Computer Science** IQRA University Islamabad *Islamabad, ICT, Pakistan* **10/2019 - 08/2023**

- Major in Computer Science and Artificial Intelligence

## Projects

- **HOME SERVICES MARKETPLACE PLATFORM:** Developed a full-stack web application using Node.js, TypeScript, and Supabase, enabling households to post service requests and caregivers to apply for gigs. Implemented booking workflows, Stripe payment integration, and Checkr verification system for secure user identity verification and trusted service transactions. (Present)
- **SUBSCRIPTION MANAGEMENT MOBILE APPLICATION:** Developed a cross-platform mobile application using React Native and Supabase, enabling users to track, manage, and receive reminders for subscription renewals. Implemented features for subscription status monitoring, renewal alerts, cancellation management, and real-time data synchronization. (2025 - Present)
- **MARKETPLACE PLATFORM:** Developed and maintained backend services using .NET and PostgreSQL, implementing REST APIs, business logic, and database integration. Contributed to frontend development using React, including UI components, feature integration, and system functionality improvements. (2024 - Present)
- **AI PERSONA SYSTEM:** Developed an AI persona platform using LLM, RAG, and vector database that allows users to upload personal documents and create AI personas capable of responding in their tone, style, and language. Implemented document ingestion, embedding generation, and conversational response system. (2025)
- **DOCUMENT MANAGEMENT & DIRECTORY PLATFORM:** Built a secure directory and document management system using Supabase, vector database, and TypeScript. Implemented file upload, organization management, member access control, document verification, and intelligent search functionality using vector embeddings. (2025)
- **AI-POWERED QURAN CHATBOT:** Developed an AI chatbot using RAG architecture, vector databases, and Supabase to answer Quran-related questions with verse references, translations, and contextual explanations. Implemented semantic search and retrieval pipelines for accurate and relevant responses. (2025)
- **CRYPTO PREDICTION COMMUNITY PLATFORM:** Contributed to development of a community-based platform where users share and analyze cryptocurrency predictions, supporting user interaction and data management features. (2025)
- **EVENT TICKETING PLATFORM:** Contributed to backend development using .NET by modifying APIs, improving functionality, and supporting event ticket sales system for the US market. (2024)
- **HEALTHCARE APPOINTMENT SYSTEM:** Contributed to development of a healthcare platform enabling patients to book appointments with doctors and manage healthcare interactions using modern web technologies. (2023)
- **REAL ESTATE PRICE PREDICTION:** Developed a machine learning model to predict property prices using Linear Regression, Ridge, Lasso, Elastic Net, K-Nearest Neighbors, and Bayesian Ridge Regression. Implemented stacking ensemble techniques and evaluated

performance using MSE, MAE, and MAPE. (2023)

## Mentorship

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- [Dr. Muhammad Bilal Bashir](#): Final Year Project Supervisor – Machine Learning, Regression Models, and Predictive System Development.
- [Dr. Nadeem Javed](#): Research Mentor – Machine Learning, AI Systems, and Data Science Research Guidance at COMSATS University Islamabad.