

# Mian Ameer Muhammad

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## Summary

I am a dedicated professional with a strong interest in leveraging data science, artificial intelligence, and machine learning to solve complex problems. With hands-on experience in AI/ML tools, certifications in data analytics, prompt engineering, and GitHub Actions, I am committed to contributing to innovative projects and advancing my expertise in AI-driven technologies.

## Education

**Bachelor of Science in Computer Science**, COMSATS University, Islamabad Sep 2023 – May 2027 Relevant coursework: Data Science, Artificial Intelligence, Machine Learning, Software Engineering, Linear Algebra, Probability Analysis

## Technical Skills

**Programming:** Python, Java, C++, SQL, HTML, CSS

**Libraries/Frameworks:** Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, FastAPI, SQLAlchemy, Alembic, Celery, Redis

**Databases:** MongoDB, PostgreSQL

**Tools:** Git, GitHub, GitHub Copilot, Jupyter Notebook, Docker, Postman, Railway, AWS S3

**Domains:** AI, Machine Learning, Deep Learning, Data Visualization, EDA, Prompt Engineering, Project Management, Backend Development, MLOps, System Architecture

## Experience

**O2Geeks** *AI/ML Engineer Intern*

Summer 2025

- Designed and implemented backend APIs for user authentication, listings, chat (WebSockets), notifications, and admin controls using FastAPI and PostgreSQL.
- Integrated AI services (recommendation, duplicate detection, price suggestion) into production pipelines.
- Built scalable system architecture with Docker, SQLAlchemy, JWT-based authentication, and deployment on Railway.
- Collaborated with cross-functional teams to define API contracts and integrate machine learning features.

## Projects

### AI Recruitment System

[GitHub Repo](#)

Developed an AI-powered recruitment system with automated resume analysis, job matching, and email notifications. Integrated NLP models and FastAPI backend.

### Campus Exchange API

[GitHub Repo](#)

Built a university marketplace backend with FastAPI, PostgreSQL, JWT authentication, WebSocket chat, and AI integration. Focused on system architecture and scalability.

### Intelligent University Timetable Generator

[GitHub Repo](#)

Developed an automated timetable generator using AI algorithms to optimize scheduling and resource allocation for universities.

### Bank Customer Churn Prediction

[GitHub Repo](#)

Developed ML models (Neural Networks, SVM, KNN) to predict customer churn. Achieved 83.11% accuracy using Neural Networks. Implemented data preprocessing with StandardScaler and LabelEncoder.

## NumPy Vector Transformation

[GitHub Repo](#)

Performed vector transformations using NumPy for statistical analysis. Documented results with equations in Markdown.

## Soft Skills

Team Collaboration, Problem Solving, Adaptability, Time Management, Creative Thinking

## Leadership & Extra-Curricular Activities

**Member, Hexagon AI/ML Society**, COMSATS University

Aug 2023 – Present

Contributed to AI/ML blogs and workshops. Helped organize events and discussions on emerging AI technologies.

## Certifications

- Tools for Data Science – IBM (Coursera) (Jul 2025)
- Anaconda Python for Data Science Professional Certificate – LinkedIn Learning
- Introduction to Data Science – LinkedIn Learning (Aug 2024)
- Introduction to Career Skills in Data Analytics – LinkedIn Learning (Aug 2024)
- 2025 Master Class on Data Science using Python A-Z for ML – Udemy (Jun 2025)
- Microsoft Azure Machine Learning Fundamentals – LinkedIn Learning (Jun 2025)
- Prompt Engineering with ChatGPT – LinkedIn Learning (Jun 2025)
- Software Testing Assistance with GitHub Copilot AI – LinkedIn Learning (Jun 2025)
- Microsoft SQL Server Bootcamp 2025: Zero to Hero – Udemy (Jun 2025)
- NLP with Python for Machine Learning Essential Training – LinkedIn Learning (Jun 2025)