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

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

- 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)

- Tools for Data Science – IBM (Coursera) (Jul 2025)